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LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

Report of the Bureau of Animal Industry.

DECEMBER 11, 1890.—Referred to the Committee on Agriculture and Forestry and ordered to be printed.

DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., December 8, 1890.

SIR: I have the honor to transmit herewith a report of the operations of the Bureau of Animal Industry for the year 1890, in compliance with the requirements of section 11 of the act approved May 29, 1884, for the establishment of that Bureau.

Very respectfully,

J. M. RUSK,
Secretary.

The PRESIDENT OF THE SENATE.



OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY FOR THE YEAR 1890.

PLEURO-PNEUMONIA.

The year has passed without any discovery of contagious pleuropneumonia outside of the districts which were recognized in the last report as infected. The regulations of the Department have been enforced without difficulty, and the progress of the work for the eradication of this plague has been continuous and rapid.

No cases of the disease have occurred in the State of New York except on Long Island. No cases have been discovered in Pennsylvania during the year, although a constant inspection has been maintained. The last case discovered in Maryland occurred in October, 1889, and since that time the State has been free from all evidence of the contagion. The condition of New Jersey as regards this plague has also improved rapidly. No other States have been affected.

The efficiency of the regulations and of the methods employed under them is demonstrated by the fact that for two years there has not been a case of the disease outside of the very restricted areas on the Atlantic seaboard which have from the first been recognized as infected. These regulations are still in force, and with the almost complete eradication of the contagion the danger of any infection extending to other sections has practically disappeared.

WORK IN NEW YORK.

In order to hasten the work on Long Island more radical measures of disinfection were adopted early in the year, and in certain cases where the disease had reappeared several times stables were torn down and burned. It also became necessary, in order to maintain any respect for the Department regulations, that vigorous measures should be adopted to prevent cattle from grazing upon the commons in the infected district. There appeared to be a widespread opinion, fostered by interested parties, to the effect that the Department had no power to enforce its regulations. As the total eradication of the disease could never be accomplished while the cattle of the infected district were allowed to pasture in common and mingle together on the pastures and highways, it was determined to put a stop to this practice by seizing and slaughtering all cattle found off of the owners premises without a permit from the chief inspector. The first seizure included over one hundred head of cows, and this was followed by others at short intervals. The owners, however, soon discovered that it was to their interest to abide by the regulations, and from that time the disease has rapidly disappeared. There can be no doubt but that these measures, though they appear arbitrary and severe, were the means of bringing speedy success to the work on Long Island, when before their adoption there

was reason to fear that the contagion might still linger there for an indefinite time.

From July 1, 1889, to June 30, 1890, there were inspected in New York 17,767 herds, containing 147,988 head of cattle. There were 151,284 animals reëxamined and 34,905 were tagged with numbers and registered upon the books of the Bureau.

There were 128 new herds found affected with pleuro-pneumonia during the year, and these herds contained 2,879 animals, 182 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 603 affected cattle at a cost of \$15,756.37, an average of \$26.13; also 2,513 exposed cattle at a cost of \$55,744.54, an average of \$22.18. The smaller cost of the exposed cattle was due, as in previous years, to the fact that the amount which the owner realized for the carcasses was deducted from the appraised value, the Department paying the balance.

It has been found necessary to disinfect 416 stables, stock yards, or other premises during the year, and also to make *post-mortem* examinations upon 17,109 carcasses of bovine animals, of which 631 were found diseased with pleuro-pneumonia.

The total expenses in New York from July 1, 1889, to June 30, 1890, were \$174,952.48, of which \$71,500.91 was paid for cattle purchased for slaughter as either diseased or exposed. The remainder constitutes the cost of disinfection, inspection, tagging, registering, supervising the movement of cattle, *post-mortem* examinations, and all the various expenses incident to a work of this character.

WORK IN NEW JERSEY.

In this State the active work has been almost entirely confined to Hudson County. The diseased herds discovered have not been numerous, and both affected and exposed animals have been promptly slaughtered.

From June 30, 1889, to July 1, 1890, there were inspected in New Jersey 8,624 herds, containing 64,108 head of cattle. Of this number 40,305 were reëxamined and 9,780 were tagged with numbers and registered upon the books of the Bureau.

There were 29 new herds found affected with pleuro-pneumonia during the year, and these herds contained 405 animals, 46 of which were pronounced diseased at the time the inspections were made. There were purchased for slaughter during the same time 69 affected cattle at a cost of \$1,848.50, an average of \$26.79 per head; also 451 exposed cattle at a cost of \$10,947.75, an average of \$24.27 per head.

It has been found necessary to disinfect 167 stables, stock yards, or other premises, and also to make *post-mortem* examinations upon the carcasses of 10,741 bovine animals, of which 89 were found diseased with pleuro-pneumonia.

The total expenses in New Jersey from July 1, 1889, to June 30, 1890, were \$60,828.02, of which \$12,896.25 was paid for cattle purchased for slaughter because they were either diseased or had been exposed.

WORK IN MARYLAND.

Although the last case of pleuro-pneumonia was discovered in Maryland in October, 1889, it was deemed best to keep up the inspection for a considerable time in order that there might be a certainty of the complete extermination of the disease. Quarantine restrictions were removed May 1, 1890, but inspections have been continued and it may now be definitely announced that Maryland is free from the contagion.

From July 1, 1889, to June 30, 1890, there were inspected in Maryland 7,296 herds, containing 71,503 head of cattle. Of this number 8,368 were reëxamined and 10,298 were tagged with numbers and registered upon the books of the Bureau. There were two new herds found affected with pleuro-pneumonia during the year, and these herds contained 28 animals, 2 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 4 affected cattle at a cost of \$99.19, an average of \$24.80 per head; also 69 exposed cattle at a cost of \$1,115.01, an average of \$16.16 per head.

It was found necessary to disinfect 5 stables or other premises during the year, and to make *post-mortem* examinations upon the carcasses of 15,109 bovine animals, of which 4 were found diseased with pleuro-pneumonia.

The total expenses in Maryland from July 1, 1889, to June 30, 1890, were \$38,558.17, of which \$1,214.20 was paid for cattle purchased for slaughter as either diseased or exposed.

THE WORK AS A WHOLE.

Including all the districts in which pleuro-pneumonia has existed there were inspected from July 1, 1889, to June 30, 1890, a total of 33,687 herds of cattle, containing 283,599 animals. Of this number 199,957 were reëxamined and 54,983 were tagged with numbers and registered upon the books of the Bureau.

There were 159 new herds found affected with pleuro-pneumonia during the year, and these herds contained 3,312 animals, 230 of which were pronounced diseased when the inspections were made. There were purchased for slaughter during the same time 676 affected cattle at a cost of \$17,704.06, an average of \$26.19 per head; also 3,033 exposed cattle at a cost of \$67,807.30, an average of \$22.36 per head.

It has been found necessary to disinfect 588 stables, stock yards, or other premises, and also to make *post-mortem* examinations upon the carcasses of 42,957 bovine animals, of which 724 were found diseased with pleuro-pneumonia.

The total expenses of the pleuro-pneumonia work from July 1, 1889, to June 30, 1890, have been \$274,338.67, of which \$85,511.36 was paid for cattle purchased for slaughter as either diseased or exposed. The remainder constitutes the expense for inspection, disinfection, tagging, registering, and supervising the movement of cattle, of *post-mortem* examinations, and of all the various expenses necessary to insure the prompt discovery of this plague when it appears in any herd and to prevent the further extension of the infection.

The following table gives a résumé of the pleuro-pneumonia work from July 1, 1889, to June 30, 1890, as given in detail above:

	New York.	New Jersey.	Mary- land.	Total.
Herds inspected	17,767	8,624	7,296	33,687
Cattle inspected	147,988	64,108	71,503	283,599
Cattle reëxamined	151,284	40,305	8,368	199,957
Diseased cattle found by inspection	182	46	2	230
<i>Post-mortem</i> examinations	17,109	10,741	15,109	42,959
Diseased carcasses found	631	89	4	724
Cattle tagged	34,905	9,780	10,298	54,983
New herds found affected	128	29	2	159
Animals in affected herds	2,879	405	28	3,312
Diseased cattle purchased	603	69	4	676
Exposed cattle purchased	2,513	451	69	3,033
Premises disinfected	416	167	5	588

A résumé in expenditures in the pleuro-pneumonia work for the same period is made below:

Items.	New York.	New Jersey.	Maryland.	Total.
Salaries.....	\$82,386.60	\$35,583.31	\$30,139.62	\$148,109.53
Traveling expenses.....	12,619.26	10,323.16	6,366.08	29,308.50
Miscellaneous expenses.....	8,445.71	2,125.30	838.27	11,409.28
Affected cattle.....	15,756.37	1,848.50	99.19	17,704.06
Exposed cattle.....	55,744.54	10,947.75	1,115.01	67,807.30
Total.....	174,952.48	60,828.02	38,558.17	274,338.67
Average for affected cattle.....	26.13	26.79	24.80	26.19
Average for exposed cattle.....	22.18	24.27	16.16	22.36

COMPARISONS WITH PREVIOUS YEARS.

The progress accomplished by this work can not be appreciated without comparing the number of new herds found affected during the year, and the total number of cases of pleuro-pneumonia found on *post-mortem* examination with similar data gathered from the reports of preceding years. As all carcasses of animals which have died or which have been slaughtered in the infected districts are carefully examined, we have in the returns of the *post-mortem* examinations the total number of cases of pleuro-pneumonia which have occurred.

The number of cattle and of new herds found affected with pleuro-pneumonia on *post-mortem* examination during the year ending June 30, 1890, as compared with the preceding year, is as follows:

States.	Affected cattle.		Affected herds.	
	1889-'90.	1888-'89.	1889-'90.	1888-'89.
New York.....	631	1,561	128	235
New Jersey.....	89	302	29	91
Pennsylvania.....	.....	29	.....	7
Maryland.....	4	242	2	46
Total.....	724	2,134	159	379

The total number of diseased and exposed cattle which have been purchased and slaughtered each year since the work for the eradication of pleuro-pneumonia was commenced is shown by the following table. The figures are for the fiscal year ending June 30:

	1886-'87.	1887-'88.	1888-'89.	1889-'90.	Total.
Diseased.....	1,342	2,398	1,903	676	6,319
Exposed.....	1,576	5,345	4,583	3,033	14,537

These tables show a very marked decrease of the disease. There were not half as many new herds found affected in 1889-'90 as in the preceding year, and only about one-third as many affected cattle. The largest number of cattle were slaughtered in 1887-'88, as previous to this the work had not covered the whole of the infected district. Since that time the number slaughtered has been largely decreased each year.

The eradication of the disease has been most rapid, however, since April, 1889; the number of new herds found affected and the cases of pleuro-pneumonia found on *post-mortem* examination during the quarter being as follows:

	April.	May.	June.	Total.
Herds affected.....	13	5	5	23
Animals affected	33	62	9	104

This shows a gratifying improvement over the preceding months of the year, but it is only when we compare the figures for this quarter with those for the first quarter of the year 1890-'91 that we can appreciate the rapidity of our recent progress. The statement for this quarter is as follows:

	July.	August.	Septem-ber.	Total.
Herds affected.....	2	4	3	9
Animals affected	2	13	13	28

When we add that during the month of October, 1890, no cases of disease were found, it is conclusively shown that we are rapidly nearing the time when pleuro-pneumonia can be declared exterminated from the United States. Until from four to six months have elapsed after the last case of this disease has been found, it will be necessary to maintain the same inspection force and to keep up the same vigilant supervision as we have now; otherwise neither our own people nor foreign governments will be convinced of the complete success of the work.

REGULATIONS CONCERNING TEXAS FEVER.

The losses from Texas fever were so much reduced by the regulations of 1889 that a similar order was issued early in 1890, to take effect March 15. By commencing the supervision at this early date it was hoped that the infection of Northern pastures might be entirely prevented and the dissemination of the disease reduced to a minimum. This anticipated relief from the fever was very generally realized, but there were some outbreaks in Kansas which occurred from infection introduced before the regulations went into effect. This was no doubt due to the exceptionally warm winter and could not be foreseen.

The regulations also differed from those of 1889 by allowing no cattle from the Indian Territory or from Texas, with the exception of the northern part of the Panhandle, to mingle with uninfected cattle. While it is doubtless true that the northwestern portion of the Indian Territory and a considerably larger section of Texas are free from permanent infection, the absence of local laws preventing free driving of dangerous cattle makes it unsafe to allow cattle from such districts to go into the same cars and yards as those from farther north. The full text of the order is as follows:

UNITED STATES DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., February 24, 1890.

To the managers and agents of railroad and transportation companies of the United States:

In accordance with section 7 of an act of Congress approved May 29, 1884, entitled "An act for the establishment of a Bureau of Animal Industry, to prevent the exportation of diseased cattle and to provide means for the suppression and extirpa-

tion of pleuro-pneumonia and other contagious diseases among domestic animals," you are hereby notified that a contagious and infectious disease, known as splenic or Texas fever, exists among cattle in the following-described area of the United States:

All that country lying south and east of a line commencing on the Mississippi River at latitude $36^{\circ} 30'$ north; thence running westward on that parallel of latitude, being the southern boundary of Missouri, to the eastern boundary of Indian Territory; thence running northward to the southern boundary of Kansas; thence westward along said boundary of Kansas to the one hundredth meridian of longitude; thence southward along said one hundredth meridian of longitude to the southern boundary of Childress County in Texas; thence westward along the southern boundary of the counties of Childress, Hall, Briscoe, Swisher, Castro, and Parmer to the eastern boundary of New Mexico.

From the 15th day of March to the 1st day of December, 1890, no cattle are to be transported from said area to any portion of the United States north, east, or west of the above-described line except in accordance with the following regulations: *Provided*, that these regulations shall not apply to any cattle taken into or through the State of Colorado for feeding purposes in accordance with the regulations of that State:

First. When any cattle in course of transportation from said area are unloaded north, east, or west of this line to be fed or watered, the places where said cattle are to be so fed or watered shall be set apart and no other cattle shall be admitted thereto.

Second. On unloading said cattle at their points of destination, pens shall be set apart to receive them and no other cattle shall be admitted to said pens, and the regulations relating to the movement of Texas cattle, prescribed by the cattle sanitary officers of the State where unloaded, shall be carefully observed. The cars that have carried said stock shall be cleansed and disinfected before they are again used to transport, store, or shelter animals.

Third. Whenever any cattle that have come from said area shall be reshipped from any of the points at which they have been unloaded to other points of destination, the car carrying said animals shall bear a placard stating that said car contains Southern cattle and each of the waybills of said shipment shall have a note upon its face with a similar statement. At whatever point these cattle are unloaded they shall be placed in separate pens to which no other cattle shall be admitted.

Fourth. The cars used to transport such animals and the pens in which they are fed and watered and the pens set apart for their reception at points of destination shall be disinfected in the following manner:

(a) Remove all litter and manure. This litter and manure may be disinfected by mixing it with lime, diluted sulphuric acid, or, if not disinfected, it may be stored where no cattle can come in contact with it until after December 1.

(b) Wash the cars and the feeding and watering troughs with water until clean.

(c) Saturate the walls and floors of the cars and the fencing, troughs, and chutes of the pens with a solution made by dissolving 4 ounces of chloride of lime to each gallon of water. Or disinfect the cars with a jet of steam under a pressure of not less than 50 pounds to the square inch.

The losses resulting yearly to the owners of Northern cattle by the contraction of this disease from contact with Southern cattle and through infected cars and by means of the manure carried in unclean cars from place to place have become a matter of grave and serious concern to the cattle industry of the United States. It is necessary, therefore, that this cattle industry should be protected as far as possible by the adoption of methods of disinfection in order to prevent the dissemination of this disease.

A rigid compliance with the above regulations will insure comparative safety to Northern cattle and render it unnecessary to adopt a more stringent regulation, such as the absolute prohibition of the movement of Southern cattle except for slaughter during the time of the year that this disease is fatal.

Inspectors will be instructed to see that disinfection is properly done, and it is hoped that transportation companies will promptly put in operation the above methods.

Very respectfully,

J. M. Rusk,
Secretary.

It has been found that the regulation requiring a placard to be placed upon the car in which Southern cattle are shipped is of little practical benefit, as shippers and others remove these marks in so many instances that this method of distinguishing infected cars can not be relied upon. Railroad companies have, however, in nearly all cases

stamped their waybills in accordance with the regulations and this has proved sufficient for the identification of cars and cattle.

It will be noticed that the regulations thus far made have not extended east of the Mississippi River. There is no doubt, however, that the Gulf and South Atlantic States are infected with this disease to the same degree as Texas, and there should be the same regulation of cattle coming from them. The traffic has been so light and the difficulties of regulating it have been such that up to the present the attempt has not been made.

Before the disease can be entirely prevented it will be necessary that the line of infection shall be drawn to the Atlantic seaboard and that the same rules be enforced east of the Mississippi as were enforced west of it during the last two years. This will prevent the infection of a number of stock yards that during the present year have been centers from which the dissemination of the disease has taken place.

On the whole the effect of these regulations has been extremely beneficial. As compared with former years but a small amount of the disease has been reported either in the United States or among cattle shipped abroad. The losses during the ocean voyage have been so much less than usual that insurance is said by shippers to have been reduced over 50 per cent. If this statement is correct it means a saving of over a million dollars to our shippers by this reduction of insurance alone.

Since the danger of shipping export cattle infected with pleuro-pneumonia has been removed a number of English writers have expressed great fear of the permanent introduction of Texas fever into Great Britain by cattle from the United States. This fear certainly must be groundless and one that could arise only through ignorance of the characters of the disease. In the first place, cattle that are sick from this disease do not transmit it to other animals, and consequently affected animals which are landed on the other side may be left out of consideration as carriers of the infection. In the second place, cattle which are shipped by cars or boat lose the infection in about three weeks after leaving their native pastures. If, therefore, the time should come when Texas cattle shall be exported to Great Britain there would be little danger from them, as it would require fully three weeks, if not longer, to transport them. In the third place, this disease never occurs in our Northern States until the middle of summer after there has been a protracted period of intense heat, the temperature of our spring and early summer being generally insufficient to develop the disease. The summer temperature in Great Britain is probably neither high enough nor is the high temperature continued a sufficient time to allow the development of this fever.

Leaving these facts out of consideration we should be able to prevent the exportation of any cattle that are infected, or any that are capable of disseminating the infection, by properly enforced regulations which will prevent the mingling of Southern and Northern cattle in our cars and stock yards. The disease is one of the easiest to prevent of any which affects our domesticated animals, and for that reason we should be able to guard against all danger from it either to our own cattle or those of other countries to which our animals are sent.

The success of the regulations during the past two years has been all that was anticipated. It has not been found difficult to identify cattle from south of the line of infection in Texas by their brands, and railroad companies have, as a rule, been prompt to clean and disinfect their cars. The principal stock yard companies have also furnished separate pens, which have been maintained with great regard to clean-

liness and the proper handling of cattle, and from every point of view it has been demonstrated that the prevention of this disease is practicable without any hardship to those engaged in the cattle traffic. Indeed, it is now asserted that Southern cattle bring better prices when sold from the quarantine yards than when indiscriminately mixed with other stock, and for this reason many lots of cattle from just north of the line are sent by choice of the owners to the quarantine yards for sale.

INSPECTION OF AMERICAN CATTLE IN GREAT BRITAIN.

The rapid progress and practically complete success of the work for the eradication of contagious pleuro-pneumonia from the United States removes the cause alleged by foreign governments for the exclusion of American cattle from their countries.

Great Britain for a number of years has maintained an absolute prohibition against the introduction of American cattle into that country, and only permits their reception at the foreign animal wharves where they are to be slaughtered within ten days after their arrival.

The several governments of the continent of Europe have also enforced a quarantine of from two to four weeks on all American cattle, which has almost entirely prevented shipments from this country.

For a number of years the British authorities have reported the arrival at their ports of American cattle affected with contagious pleuro-pneumonia, and it became, therefore, absolutely necessary that this Bureau should be represented by its own officials at the *post-mortem* examinations made on American cattle at the foreign animal wharves in order that we should determine, to our own satisfaction, whether the lung disease found there was, as they claimed, contagious; and that if it were found to be contagious, the affected animal should be traced back to the farm in this country from whence it came. With this object in view the aid of the State Department was solicited in opening negotiations through Minister Lincoln with the British Government looking to such an arrangement. Through the active coöperation of the State Department and the intelligent efforts of Minister Lincoln the privilege was obtained from the British Government of stationing three veterinary inspectors, one at each of the principal animal wharves where American cattle are slaughtered, and who would be allowed every facility in participating with the local officers in the work of inspecting and making *post-mortem* examination on American cattle landed in British ports. As soon as this privilege was secured three competent veterinary officers of the Bureau were dispatched to Great Britain in charge of the chief of the Bureau of Animal Industry, who remained with them until their duties were clearly defined and the best means decided upon to enable them to carry on their work effectually and in harmony with the British authorities.

This work was commenced on August 16 of the present year, and from that date to November 8, inclusive, there were inspected and *post-mortem* examinations made on 104,296 head of cattle arriving in Great Britain from the United States at the several ports as follows:

London	43,488
Liverpool	50,342
Glasgow	10,466

No indications of contagious pleuro-pneumonia were found in any of these animals, and on account of the eradication of the disease in this country it is believed that none will be found in the future.

INSPECTION OF EXPORT CATTLE BEFORE SHIPMENT.

The act of August 30, 1890, providing for the inspection of all export cattle, sheep, and swine, has enabled this Bureau to introduce a system of tagging export cattle by means of which it will be possible to determine the section of the country from which any animal has come that may be found at a foreign port affected with any disease. This act also prevents the exportation of any diseased animals. The amount of work required to carry out this inspection may be comprehended by the fact that during the year ending June 30, 1890, the number of animals exported was as follows:

	Head.
Cattle	394, 836
Hogs	91, 148
Sheep	67, 521

The following rules and regulations under the tenth section of the above-named act were prescribed by the Secretary of Agriculture on October 20, 1890:

Order and regulations for the inspection of cattle and sheep for export.

UNITED STATES DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., October 20, 1890.

The following order and regulations are hereby made for the inspection of neat cattle and sheep for export from the United States to Great Britain and Ireland and the continent of Europe, by virtue of the authority conferred upon me by section 10 of the act of Congress approved August 30, 1890, entitled "An act providing for the inspection of meats for exportation, prohibiting the importation of adulterated articles of food or drink, and authorizing the President to make proclamation in certain cases, and for other purposes:"

1. The Chief of the Bureau of Animal Industry is hereby directed to cause careful veterinary inspection to be made of all neat cattle and sheep to be exported from the United States to Great Britain and Ireland and the continent of Europe.

2. This inspection will be made at any of the following-named stock yards: Kansas City, Mo.; Chicago, Ill.; Buffalo, N. Y.; Pittsburgh, Pa., and at the following ports of export, viz, Boston and Charlestown, Mass.; New York, N. Y.; Philadelphia, Pa.; Baltimore, Md., and Norfolk and Newport News, Va. All cattle shipped from any of the aforesaid yards must be tagged before being shipped to the ports of export. Cattle arriving at ports of export from other parts of the United States will be tagged at said ports.

3. After inspection at the aforesaid stock yards all cattle found free of disease and shown not to have been exposed to the contagion of any contagious disease will be tagged under the direction of the veterinary inspector in charge of the yards. After tagging the cattle will be loaded into clean and disinfected cars and shipped through from said yards, in said cars, to the port of export.

4. All animals will be reinspected at the port of export. All railroad companies will be required to furnish for the transportation of cattle and sheep for export clean and disinfected cars, and the various stock yards located at the ports of export shall keep separate clean and disinfected yards for the reception of export animals only.

5. Shippers will notify the veterinary inspector in charge of yards of intended shipments of cattle, and will give to the said inspector, when possible, the name of the locality from which said animals have been brought and the name of the feeder of said animals, and such further and other information as may be practicable for proper identification of the place from which said animals have come.

6. The inspector, after passing said cattle and tagging the same, will notify the veterinary inspector in charge of the port of export of the inspection of said animals, giving him the tag numbers and the number and designation of the cars in which said animals are shipped.

7. Export animals, whenever possible, shall be unloaded at the port of export from the cars in which they have been transported directly at the wharves from which they are to be shipped. They shall not be unnecessarily passed over any highway or removed to cars or boats which are used for conveying other animals. Boats transporting said animals to the ocean steamer must be first cleansed and disinfected under the supervision of the veterinary inspector of the port, and the ocean steamer must,

before receiving said animals, be thoroughly cleaned or disinfected in accordance with the directions of said inspector. When passage upon or across the public highway is unavoidable in the transportation of animals from the cars to the boat, it must be under such careful supervision and restrictions as the veterinary inspector may, in special cases, direct.

8. Any cattle or sheep that are offered for shipment to Great Britain or Ireland, or the continent of Europe, which have not been inspected and transported in accordance with this order and regulations, will not be allowed to be placed upon any vessel for exportation, as they will be deemed, under the law, to have been exposed to infection so as to be dangerous to other animals.

9. The supervision of the movement of cattle from cars and yards to the ocean steamer at the ports of export will be in charge of the veterinary inspector of the port. No ocean steamer will be allowed to receive more cattle or sheep than it can comfortably carry. Overcrowding will not be permitted.

10. The veterinary inspector at the port of export will notify the collector of the port of the various shipments of cattle or sheep that are entitled to clearance papers, and certificates of the inspection of said animals will be given to the consignors for transmission with the bills of lading.

J. M. RUSK,
Secretary.

This work was inaugurated at the various ports of export named in the regulations on or about the 17th of November, and from that date up to the 28th of said month, there had been inspected and tagged 12,055 head of export cattle, from the different ports, as follows:

	Head.
Boston.....	3,703
New York.....	3,893
Philadelphia.....	518
Baltimore.....	2,559
Newport News.....	1,197
West Point Va.....	185

The work of inspecting and tagging at the interior stock yards named in the regulations commenced on or about the 1st day of December, and the entire system as adopted is now in full running order.

INSPECTION AND QUARANTINE OF IMPORTED ANIMALS.

Regulations for the quarantine of neat cattle from the countries not located on the American continent continue to be enforced. The period of quarantine—three months—is regarded as amply sufficient under the regulations to prevent the introduction of disease; and no additional restrictions have been imposed, notwithstanding the fact of the restrictions imposed by Great Britain on cattle from this country, and the additional fact that pleuro-pneumonia is much more prevalent and widely spread in Great Britain than it ever was in the United States.

There has long been danger of the introduction of foot-and-mouth disease by the importation of sheep, swine, and other susceptible animals that have heretofore been allowed to land without either quarantine or inspection; indeed, this disease has several times been brought to this country by cattle from Great Britain, but it has fortunately been detected in time to prevent its dissemination here. Notwithstanding this fact our sheep have been excluded from Great Britain for more than two years, owing to the alleged existence of this disease in the United States, where it has never been seen except when brought by British cattle that were affected before landing.

In order to avoid any danger of the introduction of this disease from foreign countries into the United States, the Secretary of Agriculture, under the provisions of the act of August 30, 1890, prescribed on October 13, 1890, the following regulations for quarantine and inspection of

all neat cattle, sheep and other ruminants, and all swine imported into the United States:

Regulations for the inspection and quarantine of neat cattle, sheep, and other ruminants and swine, imported into the United States.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., October 13, 1890.

In pursuance of sections 7, 8, and 10, of an act of Congress entitled "An act providing for the inspection of meats for exportation, and prohibiting the importation of adulterated articles of food or drink, and authorizing the President to make proclamation in certain cases, and for other purposes," approved August 30, 1890, the following regulations are hereby prescribed for the inspection and quarantine of neat cattle, sheep, and other ruminants, and swine, imported into the United States:

1. With the approval of the Secretary of the Treasury, the following-named ports are hereby designated as quarantine stations, and all cattle, sheep and other ruminants, and swine, imported into the United States, must be entered through said ports, viz: On the Atlantic seaboard, the ports of Boston, New York, and Baltimore; on the Pacific seaboard, San Diego; along the boundary between the United States and Mexico, Brownsville, Paso del Norte, Eagle Pass, Laredo, and Nogales; and along the border or boundary line between the United States and British Columbia and Canada, through the custom ports in the collection districts of Aroostook and Bangor, Me., Vermont, Vt., Buffalo Creek, Niagara, Cape Vincent, Champlain, and Oswegatchie, N. Y., Detroit, Port Huron, and Superior, Mich., Minnesota and Duluth, Minn., and Puget Sound, Washington.

2. The word "animals," when used in these regulations, refers to and includes all or any of the following kinds: Neat cattle, sheep and other ruminants, and swine. The words "contagious diseases," when used in these regulations, includes and applies to all or any of the following diseases: Anthrax in cattle, sheep, goats, or swine; contagious pleuro-pneumonia in cattle; tuberculosis in cattle; foot-and-mouth disease in cattle, sheep, goats, and swine; rinderpest in cattle and sheep; sheep pox, foot rot, and scab in sheep; hog cholera and swine plague in swine.

3. All cattle, sheep, and other ruminants imported into the United States from any part of the world except North and South America, shall be accompanied with a certificate from the local authority of the district in which said animals have been for one year next preceding the date of shipment, stating that no contagious pleuro-pneumonia, foot-and-mouth disease, or rinderpest has existed in said district for the past year. And all swine imported into the United States from any part of the world except North, Central, and South America, shall be accompanied with a similar certificate relating to the existence of foot-and-mouth disease. All such animals shall also be accompanied with an affidavit by the owner from whom the importer has purchased them, stating that said animals have been in the district where purchased for one year next preceding the date of sale, and that neither of the above-mentioned diseases have existed among them, or among any animals of the kind with which they have come in contact, for one year last past, and that no inoculation has been practiced among said animals for the past two years. Also by an affidavit from the importer, or his agent supervising the shipment, stating that the animals have been shipped in clean and disinfected cars and vessels direct from the farm where purchased; that they have not passed through any district infected with contagious diseases affecting said kind of animals, and that they have not been exposed in any possible manner to the contagion of any of said contagious diseases.

4. The foregoing certificate and affidavits must accompany said animals and be presented to the collector of customs at the ports of entry, and by him be delivered to the inspector of the Bureau of Animal Industry stationed at said port, to allow them to be imported into the United States.

5. All neat cattle imported into the United States from any part of the world except North, Central and South America, shall be subject to a quarantine of ninety days, counting from date of arrival at the quarantine station. All sheep and other ruminants, and swine, from any part of the world except North, Central and South America, shall be subject to a quarantine of fifteen days, counting from date of arrival at the quarantine station.

6. Any person contemplating the importation of animals from any part of the world except North, Central, and South America, must first obtain from the Secretary of Agriculture two permits, one stating the number and kind of animals to be imported, the port and probable date of shipment, which will entitle them to clearance papers on presentation to the American consul at said port of shipment; the other, stating the port at which said animals are to be landed and quarantined, and the approximate date of their arrival, and this will assure the reception of the number and kind

specified therein at the port and quarantine station named, at the date prescribed for their arrival, or at any time during three weeks immediately following, after which the permit will be void. These permits shall in no case be available at any port other than the one mentioned therein. Permits must be in the name of the owner of an agent for any one lot of animals. When more persons than one own a lot of animals for which permits have been issued, a release from quarantine will be given each owner for the number and kind he may own, and this release will be a certificate of fulfillment of quarantine regulations. Permits will be issued to quarantine at such ports as the importer may elect, so far as facilities exist at such port, but in no case will permits for importation at any port be granted in excess of the accommodation of the Government quarantine station at such port. Every importer shall, on the day of the shipment from a foreign port, telegraph to the Chief of the Bureau of Animal Industry the number and kind of animals shipped, the vessel on which they are shipped and the port at which they are to be landed. United States consuls at foreign ports are hereby notified to give clearance papers or certificates for importation of animals only upon presentation of permits as above provided, with dates of probable arrival and destination corresponding with said permits, and in no case for a number in excess of that mentioned therein.

7. All animals imported into the United States shall be carefully inspected by a veterinary inspector of the Bureau of Animal Industry, and all animals found to be free from disease and not to have been exposed to any contagious disease, except as provided in regulation 5, shall be admitted into the United States. Whenever any animal is found to be affected with a contagious disease, or to have been exposed to such disease, said animal, and all animals that have been in contact or exposed to said animal, will be placed in quarantine, and the inspector quarantining the same shall report at once to the Chief of the Bureau of Animal Industry, who will direct whether or not said animals quarantined shall be appraised and slaughtered, as provided by section 8 of the act under which these regulations are made. All animals quarantined by reason of disease or exposure to disease shall not be admitted to the established quarantine grounds, but shall be quarantined elsewhere, at the expense of the importer, or be dealt with in such manner as the Chief of the Bureau of Animal Industry shall determine.

8. In case of imported animals proving to be infected, or to have been exposed to infection, such portions of the cargo of the vessel on which they have arrived as have been exposed to these animals or their emanations shall be subjected, under the direction of the inspector of the Bureau of Animal Industry, to disinfection in such manner as may be considered by said inspector necessary before it can be landed.

9. No litter, fodder, or other aliment, nor any ropes, straps, chains, girths, blankets, poles, buckets, or other things used for or about the animals, and no manure shall be landed, excepting under such regulations as the veterinary inspector shall provide.

10. On moving animals from the ocean steamer to the quarantine grounds, they shall not be unnecessarily passed over any highway, but must be placed on cars at the wharves or removed to the cars on a boat which is not used for conveying other animals. If such boat has carried animals within three months it must be first cleaned and then disinfected under the supervision of the inspector, and after the conveyance of the imported animals the boat must be disinfected in the same manner before it may be again used for the conveyance of animals. When passage upon or across the public highway is unavoidable in the transportation of animals from the place of landing to the quarantine grounds, it must be under such careful supervision and restrictions as the veterinary inspector may, in special cases, direct.

11. The banks and chutes used for loading and unloading imported animals shall be reserved for such cattle, or shall be cleansed and disinfected as above before being used for such imported cattle.

12. The railway cars used in the transportation of animals to the quarantine grounds shall either be cars reserved for this exclusive use, or box cars not otherwise employed in the transportation of animals or their fresh products, and after each journey with animals to the quarantine grounds they shall be disinfected by thorough cleansing and disinfection under the direction of the veterinary inspector.

13. While animals are arriving at the quarantine stations, or leaving them, all quarantined stock in the yards adjoining the alleyways through which they must pass shall be rigidly confined to their sheds. Animals arriving by the same ship may be quarantined together in one yard and shed, but those coming on different ships shall in all cases be placed in separate yards.

14. The gates of all yards of quarantine stations shall be kept locked, except when cattle are entering or leaving quarantine.

15. The attendants on animals in particular yards are forbidden to enter other yards and buildings, except such are occupied by stock of the same shipment with those under their special care. No dogs, cats, or other animals, except those necessarily present, shall be allowed in the quarantine grounds.

16. The allotment of yards shall be under the direction of the veterinary inspector

of the port, who shall keep a register of the animals entered, with description, name of owner, name of vessel in which imported, date of arrival and release, and other important particulars.

17. The veterinary inspector shall see that water is regularly furnished to the stock, and the manure removed daily, and that the prescribed rules of the station are enforced.

18. Food and attendance must be provided by the owners of the stock quarantined. Employés of such owners shall keep the sheds and yards clean, to the satisfaction of the veterinary inspector.

19. "Smoking" is strictly forbidden within any quarantine enclosure.

20. No visitor shall be admitted to the quarantine station without special written permission from the veterinary inspector. Butchers, cattle dealers, and their employes are especially excluded.

21. No public sale shall be allowed within the quarantine grounds.

22. The inspector shall, in his daily rounds, as far as possible, take the temperature of each animal, commencing with the herds that have been longest in quarantine and ending with the most recent arrivals, and shall record such temperatures on lists kept for the purpose. In passing from one herd to another he shall invariably wash his thermometer and hands in a weak solution (1 to 100) of carbolic acid.

23. In case of the appearance of any disease that is diagnosed to be of a contagious nature, the veterinary inspector shall notify the Chief of the Bureau of Animal Industry, who shall visit the station personally or send a veterinary inspector, and on the confirmation of the diagnosis the herd shall be disposed of according to the gravity of the affection.

24. The yard and shed in which such disease shall have appeared shall be subject to a thorough disinfection. Litter and fodder shall be burned. Sheds, utensils, and other appliances shall be disinfected as the veterinary inspector may direct. The yard, fence, and manure box shall be freely sprinkled with a strong solution of chloride of lime. The flooring of the shed shall be lifted and the whole shall be left open to the air and unoccupied for three months.

25. In the case of the appearance of any contagious disease the infected herd shall be rigidly confined to its shed, where disinfectants shall be freely used, and the attendants shall be forbidden all intercourse with the attendants in other yards, and with persons outside the quarantine grounds.

J. M. Rusk,
Secretary.

[The designation of the ports, named in the foregoing regulations, as quarantine stations, was approved by the Secretary of the Treasury on the 16th day of October, 1890, as provided by section 8 of the act of Congress approved August 30, 1890, providing for inspection of meats and animals.]

It is believed that these regulations will not only protect our herds and flocks, but in view of the assurances to that effect received from the British authorities, it will probably result in the revocation by the British Government of its regulation excluding American sheep from Great Britain.

The inspection and quarantine of all cattle, sheep, and swine imported into the United States will add largely to the work of this Bureau. During the twelve months ending June 30, 1890, cattle were imported to the number of 30,695 head, and sheep to the number of 393,794 head. The figures of the Treasury Department fail to give the number of swine imported.

The increased duties levied under the present law may greatly diminish the number of animals imported into this country, although during the year just past 3,935 head of cattle and 16,303 head of sheep were admitted duty free on the ground that they were imported for breeding purposes.

INSPECTION OF SALTED MEATS FOR EXPORT.

The act of August 30, 1890, provides—

That the Secretary of Agriculture may cause to be made a careful inspection of salted pork and bacon intended for exportation, with a view to determining whether the same is wholesome, sound, and fit for human food, whenever the laws, regula-

tions, or orders of the government of any foreign country to which such pork or bacon is to be exported shall require inspection thereof relating to the importation thereof into such country, and also whenever any buyer, seller, or exporter of such meats intended for exportation shall request the inspection thereof.

This inspection has been assigned to the Bureau of Animal Industry and all arrangements have been made to carry the law into effect. It is too early at this writing to estimate the quantity of meat that the Department will be called upon to inspect under this law, but should the prohibition now enforced by certain continental governments be removed so far as regards inspected meats, as there is now reason to hope, there is no doubt that the amount will be very large. The regulations adopted for this inspection are as follows:

Regulations for the inspection of salted pork and bacon for export.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., September 12, 1890.

By virtue of the authority conferred upon the Department of Agriculture by section 1 of an act entitled "An act providing for the inspection of meats for exportation, prohibiting the importation of adulterated articles of food or drink, and authorizing the President to make proclamation in certain cases, and for other purposes," approved August 30, 1890, the following regulations for the inspection of salted pork or bacon for export, and the marks, stamps, or other devices for the identification of the same, are hereby prescribed:

1. Whenever any foreign country, by its laws, regulations or orders, requires the inspection of salted pork or bacon imported into such country from the United States, all packers or exporters desiring to export to said country shall make application to the Secretary of Agriculture for such inspection; also, whenever any buyer, seller or exporter of such meats intended for exportation shall desire inspection thereof, he shall likewise make application to the Secretary of Agriculture for such inspection.

2. The application must be in writing, and shall give the name of the packer of such meats, and, if the packer be the exporter, the probable amount of such meats to be exported per week or month for which inspection is requested; the name of the country, or countries, to which such meats are to be exported; the place at which inspection is desired and the date for such inspection. The applicant shall likewise agree to abide by these regulations, and to mark his packages as hereinafter provided.

3. Every package containing salted pork or bacon which has been inspected must be branded or stenciled both on the side and on the top by the packer or exporter, as follows:

For export.

- a. (Here give the name of the packer.)
- b. (Here the location and State of the factory where packed.)
- c. (Here give the net weight of the salted pork or bacon contained in the package.)
- d. (If exported by other than packer, the name of the exporter.)
- e. (Name of consignee and point of destination.)

The letters and figures in the above brand shall be of the following dimensions: The letters in the words "for export" shall not be less than three-fourths of an inch in length, and all the other letters and figures not less than one-half inch in length. All letters and figures affixed to the top and side shall be legible and shall be in such proportion and of such color as the meat inspector of the Department of Agriculture may designate.

4. The meat inspector of the Department of Agriculture, having, after inspection, satisfied himself that the articles inspected are wholesome, sound, and fit for human food, shall affix to the top of said package a meat inspection stamp, to be furnished by the Department of Agriculture, said stamps bearing serial numbers, and the inspector will write on said stamp the date of inspection. The stamp must be securely affixed by paste and tacks, in such a way as to be easily read when the package is standing on its bottom. Not less than five tacks shall be driven through each stamp, one at each corner and one in the middle of the stamp.

The stamp having been affixed, it must be immediately canceled. For this purpose the inspector will use a stencil plate of brass or copper, in which will be cut five parallel waved lines long enough to extend beyond each side of the stamp on the wood of the package. At the top of said stencil will be cut the name of the inspector and at the bottom of said stencil will be cut the district in which inspection is made.

The imprinting from this plate must be with blacking or other durable material, over and across the stamp, and in such manner as not to deface the reading matter on the stamp, that is, so as not to daub and make it illegible. The stamp having been affixed and canceled, it must immediately be covered with a coating of transparent varnish or other substance. Orders for stamps must be made by the inspector on the Chief of the Bureau of Animal Industry. The inspector, having inspected and found wholesome the contents of said package, and affixed the stamp thereon, will issue to the packer or exporter a certificate of inspection, reciting the time and place of inspection, the name of the packer, the name of the exporter and the name of the consignee and country to which exported. He will also place on said certificate the number of the package. One certificate only will be issued for each consignment, and must designate the stamp numbers of all the packages contained in said consignment.

5. The inspector will enter in the stub of his stamp book the information given by the packer's brand on the package inspected, and will report daily on blank form (*m. i. 1*), the number of stamps issued on each date, and all the information required by said blank.

6. The certificates of inspection will be furnished by the Department of Agriculture and be issued in serial numbers and in triplicate form. The inspector will deliver one copy of said certificate to the consignor or shipper of such meat inspected; one copy he will attach to the invoice or shipping bill of such meat, and the third copy he will forward to the Chief of the Bureau of Animal Industry of the Department of Agriculture for filing therein. He will likewise make a daily report on blank form (*m. i. 2*), of all certificates issued on that date, and fill out said blank with all the information required thereon.

7. Whenever the inspection of any salted pork or bacon is requested by an exporter or shipper at any other place than where packed, the packages containing such meats are to be opened and closed at the expense of the exporter, and said packages must be branded or stenciled in the same manner and contain the same information as prescribed in the case of inspection for a packer.

J. M. RUSK,
Secretary.

The new duties connected with the inspection of animals and meats which have been assigned to this Bureau during the last year will be seen by the above statement to be numerous and responsible. They involve a greatly increased amount of work, but their fulfillment will undoubtedly be of enormous benefit to the country as they will insure the protection of our live stock from imported diseases, and furnish a guaranty to foreign buyers that our meats are wholesome and that our export animals are free from the contamination of any communicable malady.

INVESTIGATION OF REPORTED DISEASES.

During the year the Bureau has been requested to investigate many cases of disease supposed to be of a contagious nature, including a considerable number of cases of disease supposed by the owner of the animals to be contagious pleuro-pneumonia or foot-and-mouth disease. Careful investigation in every case showed that these suppositions were incorrect and that the affection was either an ordinary sporadic disease, or that it was tuberculosis, or some other equally common disorder. There have been no cases of pleuro-pneumonia found except in a small district on Long Island, and an equally small district in New Jersey, which has long been infected but from which the contagion is now nearly or quite eradicated.

There have been several reports of foot-and-mouth disease in the interior of the country from persons who had never seen the European disease known by this name. Investigations have, however, shown in every case that the diagnosis was not justified by the facts, and that the actual disease was of a sporadic nature and not contagious. There has been no real foot-and-mouth disease in the United States since March, 1884, when it was introduced into the Portland quarantine station by cattle from Great Britain. The contagion in this case was dis-

seminated to a small extent outside the quarantine station, but it was immediately recognized and eradicated by prompt measures. With the three months' quarantine to which all bovine animals are subject and the inspection of all other animals coming into the country it is next to impossible to introduce foot-and-mouth disease without its being immediately recognized, and it would certainly be impossible for it to reach the interior of the United States without being discovered by the inspectors of the Department of Agriculture.

A recent circular issued by the State veterinarian of the State of Missouri which was headed "Foot-and-Mouth Disease," and which gave a somewhat detailed description of the symptoms of a disease which the State veterinarian thought might be the European foot-and-mouth disease, has excited considerable comment abroad and has been considered by some veterinary authorities as a demonstration of the existence of that disease; but careful investigation made by one of the inspectors of the Bureau, demonstrated that the disease was not of a contagious nature and that it had little, if any, resemblance to the foot-and-mouth disease of Europe. There had been no cattle or other animals taken to Missouri which had been imported from any country where foot-and-mouth disease exists, consequently there was no explanation of the appearance of a foreign contagion in that part of the country. Again, but one or two animals in a herd of twenty or thirty were affected, while with foot-and-mouth disease not one in a herd of that size would escape. In most cases there was little fever, the sores in the mouth were not of the nature of vesicles, and it is doubtful if any affected animals had any lesions about the feet which were the result of the disease. So small a proportion showed signs of lameness that this probably resulted in those animals from accidental causes.

There should be no difficulty in diagnosing at once such a disease as this as distinct from the foot-and-mouth disease of Europe. The foot-and-mouth disease could not originate spontaneously. It must have a point of origin by contagion which would connect the disease with the same malady in some other section of the world; again, foot-and-mouth disease is extremely contagious, being rapidly and unmistakably transmitted from animal to animal and from herd to herd. It attacks every animal in a herd, and not one animal in one hundred or even in a thousand exposed to the contagion escapes the disease, while the vesicles are prominent and unmistakable both in the mouth and about the feet. The increase in temperature and the fever are too marked to be overlooked. A disease with these characteristics has never existed in the interior of the United States. Rumors of such disease have been frequent, but they are started by people who are ignorant of the character of such diseases and who have had their imaginations excited by reading the accounts of these diseases in other countries. Indeed, the reports are generally made in such a way as to show that the description of the disease is taken from some publication on the subject and not from the disease itself. This is the only possible explanation of the resemblance of the symptoms given in such reports to those observed in the disease suspected, for, when the disease itself is examined, such characters as they mention can not be found.

The report of the Bureau inspector, the main points of which were concurred in by the State veterinarian after a careful investigation, should be sufficient to remove any fears of the existence of this disease in the United States. Indeed, the report of the existence of this disease would have attracted little attention, had it not been for the great interest at stake and the evident desire of parties in other countries to

find a pretext to sustain the restrictions and prohibitions now in force against the introduction of American cattle. These parties have always been ready to give credence to the wildest rumors and to put the worst construction upon any report in regard to disease in this country. The order that all American sheep and swine should be slaughtered on the English docks on account of foot-and-mouth disease, which has been enforced for the last ten years, and the unhesitating acceptance of the recent rumors of the same disease are sufficient evidence of the correctness of this statement. The United States Department of Agriculture now has a large and capable force of veterinary inspectors, whose whole time is devoted to the investigation of diseases, and the official reports of this Department are worthy of the same respect and credence as the government reports of any of the countries of Europe. Usually when a government makes an investigation of a rumored disease, its report is believed without question. The numerous attempts which have been made to discredit the conclusion of this Department after the investigation of the disease in Missouri, without giving any adequate reason for not accepting it, show that these parties are influenced in regard to American questions by motives which do not apply to the same subjects, when affecting other countries.

SCIENTIFIC INVESTIGATIONS.

The original scientific research of the year has been mostly confined to southern or Texas cattle fever and to the infectious diseases of swine. With both very important results have been obtained, both from the scientific and practical points of view.

SOUTHERN OR TEXAS FEVER OF CATTLE.

The discovery of a germ in the red corpuscles of the blood in this disease, a germ entirely distinct from bacteria but belonging to the protozoa, was mentioned in the report of last year. This notable discovery was abundantly confirmed by the investigations of the year just past, and an additional point in the problem has been brought to light.

It has long been suspected by cattle owners that the appearance of the disease in northern cattle was in some way connected with the ticks distributed by southern cattle. This hypothesis has, however, been generally discredited by scientific men, and indeed the evidence in favor of it was very slight and intangible. It seemed, however, worthy of investigation and the result has been to produce indisputable evidence that the disease is produced by ticks from southern cattle.

Ticks taken from southern animals and placed upon pastures, which could have been infected in no other way, so infected these grounds that susceptible cattle placed upon them contracted the disease in the same length of time and were as seriously affected as were other susceptible cattle placed upon pastures in company with southern cattle. Again, young ticks, that were hatched from the eggs of large ticks picked from southern cattle, were placed upon susceptible animals and produced the disease.

There are, consequently, two factors in the production of southern fever: 1st, the tick, and 2d the protozoal microorganism which lives in and destroys the red blood corpuscles of the affected cattle. Where the tick obtains the protozoön is not yet known, but that the microorganism can be transmitted from one generation of ticks to another, through the egg, is demonstrated. It is important to learn through

how many generations of ticks the germ can be transmitted without losing its virulence, and whether there is any other means by which it gains access to the system of cattle in addition to being introduced by the punctures made by ticks.

There are evidently ticks which do not harbor this minute parasite, because cattle susceptible to Southern fever are frequently badly infested with ticks without showing any marked symptoms of disturbed health. On the other hand there may be means by which the protozoön gains access to the blood of cattle independently of the agency of ticks, but it appears from the investigations just made that in the great majority of cases cattle are infected by means of ticks. That is, the adult ticks drop from southern cattle and lay their eggs upon the pastures. The eggs hatch and the young ticks get upon susceptible cattle and produce the disease.

If this supposition is correct it is of great practical importance. In the first place susceptible cattle taken to the South for breeding purposes could be protected from the fever by keeping them in such a manner that they would not become infested with ticks. That is, they could be kept in stables not previously occupied by other cattle, bedded with clean straw, and fed upon hay or grass cut from fields where no cattle had been for a considerable time. In the second place, it would seem that southern cattle might be rendered innocuous by washing them with some preparation that would destroy the ticks or by holding them upon uninfected ground a sufficient time for the ticks which are upon them to mature and drop to the ground, but not long enough upon any one pasture for the young ticks to hatch and reinfect them.

The probability of reaching important practical results is such that these investigations should be continued until the subject is thoroughly understood.

SWINE DISEASES.

The investigations of swine diseases have been carried on with the idea of determining (1) the relative prevalence of hog cholera and swine plague, (2) the value of protective inoculation by various processes as a preventive of hog cholera, and (3) to test the practicability of preventing these diseases by the use of the ptomaines or bacterial products developed by growing the germs in proper culture media.

These researches have shown that swine plague is relatively more prevalent than was at first anticipated, and that it is probably the cause of as much mortality as is hog cholera. They also confirm our conclusion of last year that inoculation is not a practical or reliable method of preventing hog cholera.

The investigations of the bacterial products have been very interesting, at least from a scientific point of view and as regards their application to the prevention of human diseases. This interest is increased at the present time by the announcement of the celebrated German investigator, Professor Koch, that he has discovered a remedy for tuberculosis. This remedy is now believed to be a product of the growth of the bacillus of tuberculosis in appropriate culture material.

It should not be forgotten that the possibility of applying these bacterial products to the prevention and cure of diseases was first made evident by the investigations of the Bureau of Animal Industry and that if Professor Koch's remedy is of the nature supposed, his method consists in the application of a principle discovered here.

Our recent work in this line has been to separate the substance which has this preventive power from the many other chemical principles

present in the culture liquids, and to study its nature and properties. The products of the hog-cholera germ have been studied quite thoroughly and their remarkable power in conferring immunity has been confirmed.

Unfortunately these products are very irritating, and in the dose necessary to produce an effect upon the system of the hog, they cause an inflammation at the point where injected into the tissues which is a great objection to their use. They could be given in smaller and more numerous doses, but this increases the expense so much as to make their use impracticable. When administered by way of the stomach their effect is lost.

That this method of preventing disease with other maladies and other species of animals, and particularly with mankind, is destined to be of much service seems very probable. With this ultimate object in view we have endeavored to produce, artificially, a drug which would have the same composition and effect as the bacterial products. By such a process we hope to obtain the preventive agent at less expense and without danger of being contaminated with the deadly germs that cause the disease. To a great extent these researches have been successful, and we are now able to produce a substance entirely by chemical processes which not only resembles the bacterial product of the hog cholera germ in composition, but which has almost if not quite the same power of conferring immunity from the disease.

By these preliminary studies we have worked out the proper methods of investigation, and it is hoped by applying them to tuberculosis and other diseases which affect animals of greater value than hogs, successful means of prevention may be secured. And if incidentally these methods of prevention can be applied to diseases affecting mankind their value to the country and to the world will only be increased thereby.

GLANDERS.

The improvement in the District of Columbia in regard to this disease is shown by the number of affected animals discovered in 1890, as compared with those in 1889. The last report of this Bureau gave the number of horses condemned each month up to and including November, 1889. Since then the number condemned monthly has been as follows:

December, 1888	0
January, 1889	2
February, 1889	2
March, 1889	0
April, 1889	4
May, 1889	2
June, 1889	4
July, 1889	4
August, 1889	1
September, 1889	2
October, 1889	2
November, 1889	0
Total	23

During the twelve preceding months the number condemned was 78. During the spring of 1890 a very general inspection was made throughout the city with especial attention to all large stables, and the fact that so few animals were discovered shows that now the District is very nearly free from the disease. It is impossible, of course, to main-

tain absolute freedom from such a malady, as it is frequently introduced by horses from other parts of the country that are sold in this market.

PUBLICATIONS.

The great need of publications for gratuitous distribution which treat in a systematic and thorough manner of the different subjects connected with the breeding and care of the domestic animals has long been apparent. The field is a large one to cover and can not be properly treated in the works of private firms without making the publications so expensive that they would be beyond the reach of the people who most need them. For this reason the Bureau of Animal Industry has undertaken the preparation of a series of reports on the breeding and management of live stock in health and disease.

These reports are intended for popular use, and, while so complete and accurate that they will be useful to the professional man or scientist, their language is to be as plain and free from technicalities and unusual expressions as is consistent with a clear and forcible treatment of the subject. Their purpose is educational, and it is hoped that they will do much to clear away the absurd traditions and practices born of ignorance which still obtain in some parts of the country, and that they will furnish a basis for a progressive and successful management.

Large amounts of money are being expended for improved stock, and unless the buyers understand the peculiar characters of the different breeds, the conditions under which they have been formed, the care which is necessary for their existence, and the diseases to which they are subject, they can only meet with indifferent success in breeding them. The best stock is the result of the most intelligent management, care and selection, and unless this management and selection are continued the stock will deteriorate.

The number of breeders who have succeeded in establishing or improving a breed have been relatively few, and the number who can even maintain all the good qualities of our most improved breeds without continually infusing new blood are not numerous. This shows a lack of knowledge among the great majority of breeders as to the requirements of improved breeds of animals which calls for correction. It is the object of this Bureau to collect this valuable information from the few who do know and to distribute it broadcast to the many who ought to know.

The first work of the series treats of the animal parasites of sheep, one of the most important subjects which confronts the sheep breeders. This work has been received with great favor and the first edition exhausted within a few months after it was ready for distribution. A second edition was immediately ordered and the applications for copies are still numerous.

The second report of the series is at this writing going through the press and it will probably be ready for distribution by the 1st of February, 1891. It treats of the diseases and accidents from which horses suffer and it will be useful to an even larger class than the volume which has preceded it. No labor has been spared either on the text or the illustrations and we have endeavored to make it compare favorably with the splendid volumes in other and less practical fields of science and research which the various Departments of the Government have from time to time issued.

A volume on sheep husbandry and one on trotting and thorough-

bred horses will be ready for the press almost as soon as the report just mentioned is out of the way. In addition to these the regular report of the Bureau of Animal Industry for the years 1888 and 1889 is in an advanced stage of preparation and will be sent to the press early in 1891.

Accompanying this statement will be found a list of persons employed and tables giving the expenditures of the year in detail.

STATEMENT SHOWING EXPENDITURES FROM THE APPROPRIATION FOR THE FISCAL YEAR ENDING JUNE 30, 1890, AND A LIST OF ALL PERSONS EMPLOYED DURING THE SAME PERIOD.

List of all persons employed during the fiscal year ending June 30, 1890.

[* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Washington.					
D. E. Salmon	Chief of Bureau	May 31, 1884			\$3,000
Edward B. Jones	Clerk of Bureau	Jan. 1, 1889†			1,500
A. M. Farrington	Assistant Chief of Bureau	Oct. 8, 1887			2,250
W. J. Cowing	Assistant in Bureau	July 1, 1886			1,800
Do	Chief Clerk of Bureau	Nov. 15, 1889			2,000
Theobald Smith	Superintendent of laboratory	Feb. 1, 1889†			2,000
F. L. Kilborne	Supt. experimental station	Feb. 1, 1889†			1,800
Robert S. Forbes	Assistant in Bureau	Jan. 1, 1889†			1,800
Miles Fuller	do	July 1, 1889†			1,800
Cooper C. Uice	Assistant in laboratory	Mar. 1, 1887†			1,600
Do	do	Nov. 15, 1889			1,800
Israel W. Stone	Assistant in Bureau	June 1, 1889			1,600
E. A. v. Schweinitz	Chemist	Jan. 1, 1890			1,600
V. A. Moore	Assistant in laboratory	Jan. 1, 1888†			1,200
Do	do	Jan. 1, 1890			1,400
Talma Drew	Stenographer	May 1, 1890			1,400
W. P. Spurgeon	Assistant in Bureau	Jan. 1, 1890			1,200
Mary Sullivan	do	July 1, 1889†			1,200
W. S. D. Haines	Draughtsman	Dec. 19, 1888			1,000
Do	do	Aug. 1, 1889			1,200
E. C. Schroeder	Assistant in laboratory	Jan. 1, 1890†			1,200
Mary T. Dent	Assistant in Bureau	July 1, 1889†			1,000
Mary G. Marshall	do	July 1, 1889†			840
Do	do	Jan. 1, 1890			1,000
Wm. B. Cravath	do	Sept. 6, 1889			1,000
Mary N. Barnard	Assistant in laboratory	Feb. 15, 1889†			720
Do	do	Jan. 1, 1890			840
Wm. Alexander	Messenger in laboratory	July 1, 1884			720
Do	do	Feb. 15, 1890			840
Edward Story	do	July 1, 1889			840
Wm. H. Bradford	Laborer, experimental station	Oct. 5, 1889			720
Wilson Carey	Messenger	Apr. 20, 1889			720
Wm. H. Rhees	Laborer, experimental station	Dec. 13, 1888	Oct. 5, 1889		720
C. S. Meyers	do	July 24, 1888			600
Do	do	Aug. 1, 1889			660
M. H. Somerville	Laborer, laboratory	July 18, 1889	Oct. 14, 1889		660
J. Somerville	do	Oct. 15, 1889			660
W. C. Shimoneck	do	Apr. 7, 1890			660
Jas. R. Stewart	do	Feb. 10, 1890			600
Gustav Thielkuhl	Assistant in laboratory	Dec. 14, 1889	Jan. 4, 1890	\$3.00	
John Meany	Laborer in laboratory	May 1, 1890		2.00	
Do	do	May 25, 1890		1.50	

24 OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY.

Statement showing expenditures and number of persons employed, etc.—Continued.

AGENTS AND SPECIAL EMPLOYÉS.

[* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Watson Pickrell.....	Agent.....	Apr. 1, 1889		*\$10.00	
W. Jndson Smith.....	do.....	June 11, 1889		*10.00	
W. A. Armstrong.....	Stock correspondent.....	Nov. 15, 1889			*\$1,200
A. G. Asdikian.....	Special agent.....	May 29, 1890			1,200
S. W. Campbell.....	Stock correspondent.....	Apr. 26, 1889			*1,600
E. A. Carman.....	do.....	Apr. 18, 1889			1,600
H. A. Heath.....	do.....	Oct. 15, 1889			*1,600
J. T. McNeely.....	do.....	July 1, 1889			*1,600
Samuel H. Pierce.....	do.....	July 19, 1889	Mar. 1, 1890 ²		*1,400
H. Romaine.....	Stock correspondent.....	July 1, 1889			*1,600
J. M. Wardlaw.....	do.....	Oct. 15, 1889	Jan. 15, 1890		*1,600
Do.....	do.....	Feb. 15, 1890	Mar. 1, 1890 ²		*1,600
E. O. Shakespeare.....	do.....	Dec. 1, 1889	Jan. 31, 1890	*10.00	
Jas. A. Walrath.....	Veterinary inspector.....	Mar. 1, 1889 ¹	Mar. 1, 1890 ³		*2,000

STOCK-YARDS INSPECTIONS.

T. L. Armstrong.....	Veterinary inspector.....	Apr. 1, 1890 ¹			*1,800
Wilson F. Braden.....	Assistant inspector.....	Mar. 15, 1890			*1,000*
Chas. E. Collins.....	do.....	Apr. 15, 1890			*1,200
Albert Dean.....	Inspector.....	Apr. 1, 1890			*1,800
Anderson M. Hunter.....	Assistant inspector.....	Apr. 15, 1890			*1,400
James Irwin.....	do.....	Apr. 1, 1890			*1,200
A. J. McCoy.....	do.....	do.....			*1,600
A. D. Melvin.....	Veterinary inspector.....	Apr. 15, 1890 ¹			*2,000
Samuel H. Pierce.....	Assistant inspector.....	Mar. 1, 1890 ⁴			*1,400
Howard Rhoads.....	do.....	Apr. 15, 1890			*1,200
J. M. Wardlaw.....	do.....	Mar. 1, 1890 ⁴			*1,600

VETERINARY INSPECTORS, ASSISTANTS, CLERKS, ETC., BY STATES.

New York. (a)					
A. K. Robertson.....	Chief inspector.....	July 1, 1889†		*12.00	
Henry B. Ambler.....	Veterinary inspector.....	Aug. 1, 1889		*8.00	
John P. Bond.....	do.....	Nov. 30, 1887 ^b	Mar. 31, 1890	*8.00	
Lucian T. Bell.....	do.....	July 18, 1887	Dec. 31, 1889	*8.00	
Roscoe R. Bell.....	do.....	Oct. 20, 1888			*1,600
John S. Candee.....	do.....	Apr. 13, 1888	Apr. 30, 1890		*1,600
J. T. D. Donnelly.....	do.....	Jan. 1, 1890	June 30, 1890		*1,200
H. D. Gill.....	do.....	Nov. 1, 1889 ^c			*1,600
R. W. Hickman.....	do.....	Nov. 1, 1889†			*1,800
Do.....	do.....	Feb. 1, 1890			*2,000
Richard Kay.....	do.....	Jan. 21, 1889			*1,600
Do.....	do.....	Feb. 1, 1890			*1,800
C. B. Michener.....	do.....	June 24, 1887		*8.00	
N. H. Paaren.....	do.....	Nov. 30, 1887 ^b		*8.00	
Chas. H. Perry.....	do.....	June 1, 1889			*1,400
W. H. Pendry.....	do.....	Jan. 1, 1890			*1,400
J. Elmer Ryder.....	do.....	Aug. 15, 1887	Nov. 30, 1889		*1,600
Henry S. Vanderhoff.....	do.....	Dec. 27, 1887			*1,600
Geo. G. Van Mater.....	do.....	June 1, 1889			*1,400
Jas. A. Walrath.....	do.....	Mar. 1, 1890 ³			*2,000
Adolph Bevers.....	Clerk.....	Apr. 16, 1888			*1,000
W. W. Craig.....	do.....	Sept. 17, 1888	Aug. 5, 1889		*1,000
Edward Devoe.....	do.....	Feb. 1, 1889†			1,600
Do.....	do.....	Feb. 1, 1890			1,800
J. B. Docharty.....	do.....	Apr. 14, 1888†			1,200
Do.....	do.....	Feb. 1, 1890			1,500
Jos. J. Hearne.....	do.....	Dec. 23, 1887			*1,000
Daniel G. Hatch.....	do.....	May 20, 1889 ⁴			1,400
Do.....	do.....	Feb. 1, 1890			1,500
Chas. A. Forshaw.....	do.....	May 20, 1889			1,000
J. F. Kilner.....	do.....	Aug. 5, 1889			1,000
Jas. E. McMullan.....	do.....	Jan. 1, 1890	Apr. 30, 1890		1,000

(a) *Disinfecting corps.*—Two men with teams, at \$5 per diem, one employed nine months, the other five months. One carpenter at \$3.50 per diem, two months. The average number of laborers employed during the year was eight, averaging twenty-four days a month, at \$2.25 per diem.

¹ Transferred from Maryland.

² Transferred to stock yards.

³ Transferred to New York.

⁴ Transferred.

⁵ Transferred from Illinois.

⁶ Transferred from New Jersey.

Statement showing expenditures and number of persons employed, etc.—Continued.

VETERINARY INSPECTORS, ASSISTANTS, CLERKS, ETC., BY STATES—Continued.

[* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
New York—Continued.					
J. J. Rabineau	Clerk	Feb. 1, 1890			\$1,000
Chas. A. Wilcox	do	May 7, 1889			*1,000
Miles Adams	Appraiser	July 6, 1888†	Dec. 31, 1889		*1,200
Thos. G. Willson	do	do	July 31, 1889		*1,200
James H. Clark	do	Jan. 1, 1890			*1,200
Joseph H. Storm	do	Aug. 1, 1889			*1,200
William Bulmer	Assistant inspector	Dec. 31, 1887	Apr. 15, 1890		*1,000
Henry Bodes	do	Jan. 4, 1888	Aug. 5, 1889		*1,000
Leon E. Block	do	Aug. 1, 1889			*1,000
Wm. H. Bogart	do	do			*1,000
Henry Brister	do	do			*1,000
Chester H. Bliss	do	Oct. 15, 1889			*1,000
Jeremiah Connors	do	Dec. 31, 1887	Jan. 31, 1890		*1,000
Wm. A. Clancy	do	Jan. 18, 1888	Oct. 15, 1889		*1,000
Jas. W. Curran	do	May 8, 1888	do		*1,000
Gustav L. Cohn	do	Mar. 10, 1888		\$1.00	
Do	do	Jan. 1, 1890			*1,000
Austin Cornwell	do	Aug. 1, 1889			*1,000
George Cornish	do	Dec. 1, 1889			*1,000
Alex. Devlin, jr.	do	July 6, 1888			*1,000
John H. Eadie	do	Aug. 1, 1889			*1,000
Thos. M. Farrell	do	Dec. 20, 1887	July 31, 1889		*1,000
Joseph Fallon	do	Mar. 10, 1888	Oct. 15, 1889		*1,000
E. H. Flavin	do	Oct. 15, 1889			*1,000
Wm. Foley	do	Mar. 15, 1890			*1,000
Peter Geis	do	Dec. 1, 1888	Oct. 15, 1889		*1,000
Chas. E. Grogan	do	Oct. 15, 1889			*1,000
Peter Hirschfield	do	Aug. 1, 1889	Aug. 10, 1889		*1,000
Wm. W. Hughes	do	do			*1,000
Frank Hallenbeck	do	Dec. 1, 1889			*1,000
Hiram Jerome	do	Oct. 15, 1889			*1,000
Samuel Jarvis	do	Mar. 15, 1890			*1,000
Wm. Kavanagh	do	Dec. 19, 1887	July 31, 1889		*1,000
Emiel W. Kraft	do	Jan. 3, 1888	do		*1,000
J. J. Kellum	do	Jan. 21, 1888	do		*1,000
Geo. J. Murphy	do	Nov. 23, 1887	Oct. 15, 1889		*1,000
Richard Murphy	do	Dec. 24, 1887	July 31, 1889		*1,000
John Mesick	do	Aug. 5, 1889			*1,000
Fred'k Metzger	do	Jan. 1, 1890			*1,000
Benj. B. Mullen	do	June 10, 1890			*1,000
P. J. McIntyre	do	July 25, 1888	Nov. 30, 1889		*1,000
Michael Nau	do	Aug. 1, 1889			*1,000
Frank H. Pendleton	do	Oct. 15, 1889			*1,000
William Ramsey	do	Dec. 19, 1887	Mar. 14, 1890		*1,000
John J. Rapelye	do	Nov. 1, 1889	June 12, 1890		*1,000
Jas. W. Smith	do	Dec. 19, 1887	July 31, 1889		*1,000
Albert Stern	do	Dec. 20, 1887	do		*1,000
Jas. H. Smith	do	Jan. 24, 1888	do		*1,000
John E. Sharkey	do	May 7, 1888	do		*1,000
James Smith	do	May 20, 1889			*1,000
J. S. Sargent	do	Oct. 15, 1889			*1,000
P. J. Thomas	do	Oct. 1, 1888	Oct. 15, 1889		*1,000
Wm. J. Taylor	do	Aug. 1, 1889			*1,000
Jas. R. Taylor	do	Dec. 1, 1889			*1,000
O. P. Vandenberg	do	May 20, 1889			*1,000
P. C. Vandewater	do	Aug. 1, 1889			*1,000
Ellwood Valentine	do	Oct. 15, 1889			*1,000
S. T. Velsor	do	Dec. 1, 1889			*1,000
C. S. Vosburgh	do	Jan. 15, 1890			*1,000
James Welch	do	Dec. 1, 1889			*1,000
Wm. J. Watt	Superintendent of disinfectors	Jan. 18, 1888†		5.00	
Thomas Coyle	Foreman disinfectors	Jan. 16, 1888†			1,000
David Holland	do	May 26, 1890	June 30, 1890	3.25	
New Jersey. (a)					
J. W. Hawk	Chief inspector	Apr. 16, 1889			*2,000
W. W. Curry	Veterinary inspector	Mar. 10, 1888			*1,400
W. H. Cooper	do	May 1, 1889			*1,400
H. D. Gill	do	Feb. 6, 1888	Oct. 31, 1889†		*1,600
Julius Huelssen	do	Mar. 10, 1888			*1,400

26 OPERATIONS OF THE BUREAU OF ANIMAL INDUSTRY.

Statement showing expenditures and number of persons employed, etc.—Continued.

VETERINARY INSPECTORS, ASSISTANTS, CLERKS, ETC., BY STATES—Continued.

[* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
New Jersey—Cont'd.					
R. R. Letts	Assistant inspector.	Apr. 11, 1888			*\$1,000
Do	Veterinary inspector	Oct. 15, 1889			*1,200
Wm. B. E. Miller	do	May 1, 1890			*1,600
Werner Runge	do	June 15, 1889†			*1,400
H. W. Rowland	do	Mar. 7, 1887			*1,400
W. A. Willard	Clerk	May 20, 1889 ²			*1,400
B. D. Phillips	do	June 15, 1889†	Nov. 9, 1889		1,200
W. L. Ferguson	do	June 15, 1889			1,000
Floy McEwen	do	Jan. 1, 1890			1,000
C. D. Noonan	do	Apr. 26, 1888			840
Frederick Bluem	Assistant inspector.	May 10, 1889			*1,000
John Briggs	do	Mar. 1, 1890			*1,000
James Cassey	do	May 10, 1889			*1,000
Thomas Crozer	do	June 15, 1889			*1,000
Melvin Doremus	do	May 6, 1889			*1,000
David R. Hobart	do	July 1, 1889			*1,000
Simon Kelly	do	Feb. 6, 1888			*1,000
Ira C. Kilburn	do	May 6, 1889			*1,000
Joseph Locke	do	do			*1,000
R. H. Moore	do	Dec. 1, 1889			*1,000
James McGirr	do	May 6, 1889	Nov. 15, 1889		*1,000
J. H. Phelan	do	do			*1,000
John J. Smith	do	Dec. 10, 1888	Feb. 28, 1890		*1,000
Daniel F. Shea	do	Dec. 1, 1889			*1,000
William Taylor	do	May 10, 1889	Nov. 15, 1889		*1,000
Geo. C. Toffey	do	May 6, 1889			*1,000
B. S. Watson	do	June 15, 1889			*1,000
Harvey Ostrander	Superintendent of disinfectors.	Apr. 12, 1889 ³	Nov. 15, 1889		*1,000
Mo. Conklin	do	Dec. 1, 1889			1,000
Pennsylvania.					
W. H. Rose	Veterinary inspector	Oct. 26, 1887 ⁴		*\$8.00	
George Carter	Assistant inspector.	Apr. 10, 1888			*1,000
Edwin S. Huff	do	Feb. 1, 1890			1,000
Maryland. (b)					
George C. Faville	Chief inspector.	Apr. 1, 1888†		*10.00	
T. L. Armstrong	Veterinary inspector	June 25, 1889			*1,600
Do	do	Dec. 1, 1889	Mar. 31, 1890 ⁵		*1,800
A. W. Clement	do	Dec. 1, 1887†			*2,000
C. K. Dyer	do	July 1, 1889	Apr. 30, 1890		*1,600
Albert Hassall	do	May 24, 1887	do		*1,600
D. R. Hoffman	do	Mar. 24, 1888			*1,200
Do	do	Dec. 1, 1889	Apr. 30, 1890		*1,400
A. D. Melvin	do	Dec. 1, 1887†	Apr. 14, 1890 ⁵		*2,000
Jas. F. Ryder	do	Apr. 17, 1888			*1,600
E. C. Schroeder	do	Aug. 1, 1888†	Dec. 31, 1889 ⁶		*1,200
Wm. H. Wray	do	Apr. 18, 1888		*8.00	
F. W. Patterson	do	Sept. 14, 1886	Apr. 30, 1890		*1,400
Wm. S. Brooke	Appraiser.	Apr. 1, 1889	do	*5.00	
Henry Schludenberg	do	June 1, 1889	do	*5.00	
J. B. Trull	Clerk.	Aug. 1, 1888†	do		1,400
I. L. Ball	do	July 2, 1888			1,000
Fred Faville	do	July 1, 1888†	Apr. 30, 1890		1,000
Chas. H. Roberts	do	Jan. 1, 1890	do		1,000
J. F. Shipley	do	Dec. 2, 1887	Dec. 31, 1889		1,000
James Boyd	Assistant inspector.	do	Apr. 30, 1890		*1,000
J. B. Bausman	do	Apr. 16, 1889	do		*1,000
Carroll Ensor	do	Oct. 26, 1887	July 3, 1889		*1,000
Cyrus M. Gardner	do	Apr. 11, 1889	Apr. 30, 1890		*1,000
Frederick Gross	do	do	do		*1,000

(a) *Disinfecting corps.*—One man with team, at \$5 per diem, ten months, averaging sixteen days a month. The average number of laborers employed during the year was eight, averaging nineteen days a month, at \$2.25 per diem.

(b) *Disinfecting corps.*—In July two men, with teams, at \$3 per diem, and six laborers, at \$1.50 per diem, were employed two days.

¹ Transferred to New York.

² Transferred from New York.

³ Transferred from Pennsylvania.

⁴ Transferred from District of Columbia.

⁵ Transferred to stock yards.

⁶ Transferred to Washington.

Statement showing expenditures and number of persons employed, etc.—Continued.

VETERINARY INSPECTORS, ASSISTANTS, CLERKS, ETC., BY STATES—Continued.

[* And traveling expenses. † Promoted.]

Name.	Capacity.	Date of appointment.	Services ended.	Compensation.	
				Per diem.	Per annum.
Maryland—Continued.					
Thos. A. Hays	Assistant inspector.....	Dec. 15, 1887	Apr. 30, 1890	.....	*\$1, 000
Edward N. Kratz	do	July 8, 1889	do .....	.....	*1, 000
David N. McCauley	do	Apr. 11, 1889	do .....	.....	*1, 000
R. C. Waters	do	May 5, 1889	do .....	.....	*1, 000
V. F. Collier	do	July 16, 1888	do .....	.....	*1, 000
W. H. Snader	do	May 10, 1889	do .....	.....	*1, 000
David Holland	Superintendent of disinfectors..	Nov. 3, 1887	do .....	.....	1, 000

Statement showing expenditures from the appropriation for the fiscal year ending June 30, 1890.

	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.	Total.	No. of animals—	
							Affected.	Exposed.
New York.....	\$82,386.60	\$12,619.26	\$8,445.71	\$15,756.37	\$55,744.54	\$174,952.48	603	2,513
New Jersey	35,583.31	10,323.16	2,125.30	1,848.50	10,947.75	60,828.02	69	451
Pennsylvania.....	3,645.90	290.86	.....	.....	.....	3,936.76	.....	.....
Maryland	30,139.62	6,366.08	838.27	99.19	1,115.01	38,558.17	4	69
Scientific investigations—general....	10,274.38	132.16	14,419.66	.....	.....	24,826.20	.....	.....
Investigation of swine diseases....	4,539.15	48.44	956.09	.....	.....	5,543.68	.....	.....
Collecting information	11,659.34	3,103.64	2,328.20	.....	.....	17,091.18	.....	.....
Investigating reported diseases....	1,581.21	440.47	20.00	.....	.....	2,041.68	.....	.....
Stock Yards.....	4,079.30	625.28	.....	.....	.....	4,704.58	.....	.....
Washington and miscellaneous	20,268.07	529.93	2,130.84	.....	.....	22,928.84	.....	.....
Total	204,156.88	34,479.28	31,264.07	17,704.06	67,807.30	355,411.59	676	3,033

Expended from the appropriation for 1889-'90 by States.

NEW YORK.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
July 19	R. F. Flahavan	New York	Enamel letters, etc.			\$11.50		
19	Frank and J. G. Jenkins, jr.	Brooklyn	Office rent, July 1-15.			12.50		
19	Sheppard, Knapp & Co.	New York	Rugs and mats.			43.00		
19	Wm. Schwarzwaelder & Co.	do	Desk and chairs.			51.00		
25	T. J. Sillev	do	Table and case.			19.75		
			Total for month.	137.75				
Aug.	Jeremiah Connors	Assistant inspector.	Salary and expenses, July	\$84.20	\$4.53			
5	Wm. A. Clancy	do	do	84.20	5.78			
5	R. W. Hickman	do	do	134.80	3.47			
5	William Ramsey	Assistant inspector.	do	84.20	9.27			
5	Albert Stern	do	do	84.20	14.63			
5	Richard Murphy	do	do	84.20	5.83			
5	Joseph Fallon	do	do	84.20	6.04			
5	O. P. Vandenberg	do	do	84.20	5.66			
5	Peter Geis	do	do	84.20	4.90			
5	Jas. B. Docharty	Clerk	Salary for July	101.10				
5	Daniel G. Hatch	do	do	117.90				
5	Edward Devoe	do	do	134.80				
25	William Kuhn	Assistant inspector.	Salary and expenses, July	84.20	30.00			
5	Roscoe E. Bell	do	do	134.80	45.00			
5	James W. Smith	Assistant inspector.	do	84.20	30.00			
5	Wm. E. Kavanagh	do	do	84.20	30.00			
5	Adolph Bevers	Clerk	Salary for July	84.20				
5	W. W. Craig	do	do	84.20				
5	Joseph J. Hearne	do	do	84.20				
5	Chas. A. Wilcox	do	do	84.20				
5	Alex. Devlin, jr.	Assistant inspector.	do	84.20				
5	James Smith	do	do	84.20				
5	Chas. A. Forslow	Clerk	do	84.20				
5	P. Jerome Thomas	Assistant inspector.	do	84.20				
9	Geo. J. Murphy	do	do	84.20				
9	A. K. Robertson	do	Salary and expenses, July	324.00	3.13			
9	N. H. Paaren	do	do	208.00	7.97			
9	Miles Adams	Appraiser	do	101.10	82.23			
9	Thos. G. Willson	do	do	101.10	63.97			
9	J. S. Candee	do	do	134.80	18.02			
9	Richard Kay	do	do	134.80	11.28			
9	Chas. H. Perry	do	do	117.90	9.47			

9	Thos. M. Farrell	Assistant inspector	do	7 92	84.20	7 92	84.20
9	Henry Bodes	do	do	4.17	84.20	4.17	84.20
9	W. Judson Smith	do	do	97.98	240.00	97.98	240.00
9	John E. Sharkey	Assistant inspector	do	17.07	84.20	17.07	84.20
9	H. S. Vanderhoff	do	do	45.00	134.80	45.00	134.80
9	Lucian T. Bell	do	do	45.00	192.00	45.00	192.00
9	John J. Kelum	Assistant inspector	do	30.00	84.20	30.00	84.20
9	P. J. McIntyre	do	Salary for July				
9	W. J. Watt, et al.	Disinfectors	Salaries, only		718.70		718.70
9	Jas. W. Curran	Assistant inspector	Salary and expenses, July	30.00	84.20	30.00	84.20
9	B. Newman	Janitor	Services, July 1 to 15		3.00		3.00
12	Jno. P. Bond	Assistant inspector	Salary and expenses, July	103.47	216.00	103.47	216.00
12	E. W. Kraft	do	do	57.37	84.20	57.37	84.20
12	Jas. H. Smith	do	do	8.39	84.20	8.39	84.20
12	Mason, Chapin & Co.	New York	Bleaching powder		126.40		126.40
14	J. Elmer Kyder	do	Salary and expenses, July	34.42	134.80	34.42	134.80
14	Ch. B. Michener	New York	do	30.64	248.00	30.64	248.00
14	Bogardus, Ellaby & Ellsworth	Assistant inspector	Nippers, etc		7.57		7.57
14	Gustav L. Cohn	do	Salary, July	11.38	31.00	11.38	31.00
17	Geo. G. Van Mader	Assistant inspector	Salary and expenses, July	72	117.90	72	117.90
17	Henry Bodes	Clerk	Salary for August 1 to 5		13.59		13.59
17	W. W. Craig	New York	Stationery	27.64	13.59	27.64	13.59
17	John Bingham	do	Expenses, July				
26	A. K. Robertson	Kings County	1 animal		5.00		5.00
26	Peter Baden	Janitor	Services, July 16 to 31				
26	Cornelius Frank	New York	Lime		75.60		75.60
26	Canda & Kane	do	Desk		12.00		12.00
26	Geo. P. Morgan	do	do				
Total for month				942.45	6,171.08	310.72	31.27
Salary and expenses, August				8.67	216.00	8.67	216.00
6	N. H. Paaren	do	do	9.97	117.90	9.97	117.90
6	Richard Kay	do	do	9.48	134.80	9.48	134.80
6	Wm. A. Clancy	Assistant inspector	do	3.47	84.20	3.47	84.20
6	Jeremiah Connors	do	do	3.67	84.20	3.67	84.20
6	Peter Geis	do	do	4.15	84.20	4.15	84.20
6	O. P. Vandenberg	do	do	6.42	84.20	6.42	84.20
6	Wm. Ramsey	do	do	12.67	84.20	12.67	84.20
6	Joseph Fallon	do	do	6.14	84.20	6.14	84.20
6	H. S. Vanderhoff	do	do	47.37	134.80	47.37	134.80
6	R. W. Hickman	do	do	3.02	134.80	3.02	134.80
6	C. B. Michener	do	do	8.37	248.00	8.37	248.00
6	J. S. Candee	do	do	30.00	134.80	30.00	134.80
6	Roscoe R. Bell	do	do	45.00	134.80	45.00	134.80
6	Edward Devoe	Clerk	Salary for August		117.90		117.90
6	D. G. Hatch	do	do		101.10		101.10
6	Jas. B. Docharty	do	do		84.20		84.20
6	Jas. Smith	Assistant inspector	do		84.20		84.20
6	P. J. McIntyre	do	do		84.20		84.20
6	Chas. A. Wilcox	Clerk	do		84.20		84.20
6	Chas. A. Forshew	do	do		84.20		84.20

Sept.

Expended from the appropriation for 1889-'90 by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Sept. 6	Jos. J. Hearne.....	Clerk.....	Salary for August.....	\$84.20				
6	Alex. Devlin, jr.....	Assistant inspector.....	do.....	84.20				
6	Geo. J. Murphy.....	do.....	do.....	84.20				
6	Adolph Bevers.....	Clerk.....	do.....	84.20				
6	J. F. Kilner.....	do.....	Salary for August 5 to 31.....	73.37				
6	G. L. Cohn.....	Assistant inspector.....	do.....	31.00				
6	W. J. Watt <i>et al</i>	Disinfectors.....	Salaries, August.....	700.70				
11	A. K. Robertson.....	do.....	Salary and expenses, August.....	324.00	\$3.24			
11	Leon E. Block.....	Assistant inspector.....	do.....	84.20	9.27			
11	John H. Eadie.....	do.....	do.....	84.20	11.97			
11	Geo. G. Van Mater.....	do.....	do.....	117.90	19.81			
11	Wm. J. Taylor.....	Assistant inspector.....	do.....	84.20	3.82			
11	Wm. H. Bogart.....	do.....	do.....	84.20	9.60			
11	P. J. Thomas.....	do.....	do.....	50.12				
11	Wm. Bulmer.....	do.....	do.....	84.20	30.00			
11	P. C. Vandewater.....	do.....	do.....	84.20	30.00			
11	Austin Cornwell.....	do.....	do.....	84.20	30.00			
11	Lucian T. Bell.....	do.....	do.....	200.00	45.00			
11	John Bingham.....	New York.....	Permit and record books, etc.....		\$138.15			
11	Cornelius Frank.....	Janitor.....	Services, August.....	10.00				
11	Peter Hirschfeld.....	Assistant inspector.....	Salary and expenses, August 1 to 10.....	27.17	9.68			
11	James W. Curran.....	do.....	Salary and expenses, August 1 to 5.....	13.59	4.84			
11	Chas. H. Bedell.....	Queens County.....	11 animals.....		\$326.80			
11	do.....	do.....	18 animals.....					
11	M. F. Quinn.....	Kings County.....	10 animals.....					\$421.10
11	William Ferehland.....	do.....	22 animals.....					300.41
17	Henry B. Ambler.....	Appraiser.....	Salary and expenses, August.....	248.00	14.10	3.45		597.30
17	Jos. H. Storm.....	do.....	do.....	101.10	88.15			
17	Jno. P. Bond.....	Assistant inspector.....	do.....	215.00	60.92			
17	Wm. W. Hughes.....	do.....	do.....	84.20	4.98			
17	A. K. Robinson.....	do.....	do.....	84.20	3.47			
17	Michael Nat.....	Assistant inspector.....	Expenses, August.....		12.15	10.12		
17	Brook & Griffith.....	Brooklyn.....	Salary and expenses, August.....	84.20	30.00			
17	George I. Hunter.....	do.....	Carpentry.....			244.20		
17	Bogardus, Ellaby & Ellsworth.....	New York.....	Window shades.....			20.00		
18	Canda & Kane.....	do.....	Chain, nippers, etc.....			28.88		
18	John H. Burtis.....	Brooklyn.....	Lime.....			52.50		
18	do.....	do.....	Office rent, July.....			45.00		
18	Miles Adams.....	Appraiser.....	Office rent, August.....			45.00		
20			Salary and expenses, August.....	101.10	64.67			

Expended from the appropriation for 1889-'90—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889								
Oct. 10	O. P. Vandenberg	Assistant inspector	Salary and expenses, September	\$81.60	\$5.83			
10	Joseph Fallon	do	do	81.60	5.38			
10	Wm. J. Taylor	do	do	81.60	3.97			
10	Peter Geis	do	do	81.60	2.03			
10	Wm. A. Clancy	do	do	81.60	3.77			
10	Jeremiah Connors	do	do	81.60	3.77			
10	Wm. W. Hughes	do	do	81.60	3.77			
10	Roscoe R. Bell	do	do	130.40	45.00			
10	J. S. Candee	do	do	130.40	30.00			
10	Austin Cornwell	do	do	81.60	30.00			
10	P. C. Vandewater	do	do	81.60	30.00			
10	Wm. Bulmer	do	do	81.60	30.00			
10	James W. Curran	do	do	40.76	15.00			
10	James Smith	do	Salary and expenses, September 16 to 30	81.60				
10	P. J. McIntyre	do	Salary for September	81.60				
10	Geo. J. Murphy	do	do	81.60				
10	Alex. Devlin, jr	do	do	81.60				
10	Gustav L. Cohn	do	do	30.00				
12	Jos. H. Storm	do	Salary and expenses, September	97.80	107.82			
12	Miles Adams	do	do	97.80	75.32			
12	J. Elmer Ryder	do	do	130.40	25.62			
12	R. W. Hickman	do	do	130.40	10.30			
12	Michael Nen	do	do	81.60	30.00			
12	Cornelia Frank	Assistant inspector	Services, September	10.00				\$955.12
12	John W. Melt	Junior	44 animals					469.00
12	Henrietta Kraft	Kings County	15 animals					52.50
12	Charles Lang	Queens County	2 animals					
12	do	do	2 animals					
12	Patrick McIntyre	do	6 animals					\$51.50
14	A. K. Robertson	New York	Salary and expenses, September	300.00	27.00			204.35
14	Mason, Chapin & Co	Brooklyn	Bleaching powder			\$127.69		
14	Frank Vaude-bilt	Brooklyn	Fender, etc			14.75		
14	The Metropolitan Telephone and Telegraph Company	New York	Exchange rental					
16	Chas. B. Michener	New York	Salary and expenses, September	232.00	21.26			
16	The New York and New Jersey Telephone Company	Brooklyn	Exchange rental and tolls			41.60		
18	John P. Bond	New York	Salary and expenses, September	200.00	31.22			
18	A. K. Robertson	New York	Expenses, September		54.12			
18	Canda & Kane	New York	Cement			52.50		

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Nov. 4	Mary Bassett	Kings County	9 animals				\$229.25	
4	John S. Duryea	do	1 animal					\$25.00
4	Thomas McKinney	do	12 animals					284.90
4	A. S. Barnes & Co.	New York	Record books, etc					
5	Richard Kay	do	Salary and expenses, October	\$134.80	\$11.39	\$165.50		
5	Ch. B. Michener	do	do	224.00	4.51	1.74		
5	Roscoe R. Bell	do	do	134.80	45.00			
5	H. S. Vanderhoff	do	do	134.80	45.00			
5	Edward DeVoe	Clerk	Salary for October	134.80				
5	D. G. Hatch	do	do	117.90				
5	Jas. B. Docharty	do	do	101.10				
5	Chas. A. Forshew	do	do	84.20				
5	J. E. Kilmer	do	do	84.20				
5	Chas. A. Wilcox	do	do	84.20				
5	Adolph Bevers	do	do	84.20				
5	Joseph J. Hearno	do	do	84.20				
5	W. J. Watt <i>et al</i>	Disinfectors	Salaries, October	750.20				
6	A. K. Robertson	do	Salary and expenses, October	324.00	3.97			
6	Henry B. Ambler	do	do	240.00	11.31			
6	Michael Nau	Assistant inspector	do	84.20	30.00			
6	Austin Cornwell	do	do	84.20	30.00			
6	P. C. Vandewater	do	do	84.20	30.00			
6	John H. Eadie	do	do	84.20	12.82			
6	Wm. Ramsey	do	do	84.20	12.42			
6	Wm. H. Bogart	do	do	84.20	10.82			
6	Henry Bristor	do	do	84.20	9.20			
6	O. P. Vandenberg	do	do	84.20	6.67			
6	Wm. A. Clancy	do	Salary and expenses, October 1 to 15	40.76	2.07			
6	Alex. Devlin, Jr.	do	Salary for October	84.20				
6	James Smith	do	do	84.20				
6	P. J. McIntyre	do	do	84.20				
6	Hiram Jerome	Assistant inspector	Salary for Oct. 15 to 31	46.20				
6	A. W. Monfort	Kings County	51 animals					807.84
6	Chas. Haas	Queens County	16 animals					406.44
6	do	do	3 animals				75.82	
6	do	do	1 animal					10.00
6	Anton Albert	do	Salary and expenses Oct. 15 to 31	46.20	18.76			
8	Ellwood Valentine	Assistant inspector	Salary and expenses October	270.00	105.24			335.17
8	W. Judson Smith	Queens County	19 animals					
8	Joseph Lang	do	3 animals				36.43	

8	Richard Bragaw	Kings County	21 animals	117.90	50.08	451.50
8	John Buffett	do	20 animals	84.20	30.00	417.00
9	Geo. G. Van Mater	Assistant inspector	Salary and expenses October	84.20	9.27	
9	Wm. Bulmer	do	do	84.20	4.72	
9	Leon E. Block	do	do	84.20	3.82	
9	Jeremiah Connors	do	do	84.20		
9	Wm. J. Taylor	Disinfector	Salary for October, 18 days	31.00		
9	James E. McMullan	Assistant inspector	Salary for October	101.10	3.48	
12	Jos. H. Storm	Appraiser	Salary and expenses, October	101.10	2.04	
12	Miles Adams	do	do	192.00	36.02	
13	Jno. P. Bond	do	do	134.80	23.32	
13	J. Elmet Ryder	do	do	134.80	11.41	
13	R. W. Hickman	do	do	117.90	10.47	
13	Chas. H. Perry	do	do	84.20	12.02	
13	John Mesick	Assistant inspector	do	84.20	9.44	
13	Wm. W. Hughes	do	do	46.20	4.62	
13	F. H. Pendleton	do	Salary and expenses Oct. 15 to 31	46.20	4.47	
13	Chas. E. Grogan	do	do	46.20	4.28	
13	J. S. Sargent	do	do	46.20	1.87	
13	Chester H. Bliss	do	do	46.20	1.72	
13	E. H. Flavin	do	do	46.20		
15	The Metropolitan Telephone and Telegraph Company	New York	Exchange rental and tolls		13.80	
15	Bogardus, Ellaby and Ellsworth	do	Nippers, etc.		14.45	
15	Cornelius Frank	Janitor	Services	10.00		
15	J. S. Candee	do	Salary and expenses, October	134.80	30.00	
15	Metropolitan Rubber Company	New York	Hose, etc.		46.80	
15	Gleason and Bailey Manufacturing Company	do	Cylinder, etc.		14.00	
15	John H. Burtis	Brooklyn	Office rent	45.00		
15	John Bingham	New York	Stationery	45.20		
18	John G. Gorr	Queens County	17 animals		459.28	
18	do	do	3 animals	86.68		
18	Barbara Hollfelder	do	1 animal		15.00	
18	Max Brenner	do	1 animal		3.65	
18	John Clancy	Kings County	73 animals		522.00	
18	do	do	3 animals	16.00		
18	Edward Simnot	do	1 animal		21.47	
18	Patrick Joyce	do	1 animal		10.64	
21	N. H. Paaren	do	1 animal			
21	Lucian T. Bell	Queens County	Salary and expenses, October	216.00	17.23	
21	Edwin F. Abenethy	do	do	184.00	45.00	
21	John Dippel	Kings County	12 animals		381.00	
21	do	do	11 animals	269.20		
21	do	do	21 animals		562.90	
21	The Gutta Percha and Rubber Manufacturing Company	New York	Hose, etc.		7.74	
25	A. K. Robertson	Queens County	Expenses, October		24.52	
25	C. S. Van Sise	do	1 animal	12.18		
25	Edward Gatz	do	1 animal		20.00	
					11.10	

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Nov. 25	Adam Koeller	Queens	6 animals				\$171.00	\$732.00
Nov. 25	do	do	34 animals					
30	George Schmitter	do	1 animal				12.00	335.00
30	do	do	14 animals					670.95
30	Thomas Hoeg	do	27 animals				15.00	
30	do	do	1 animal					15.00
30	do	do	1 animal					9.12
30	Michael Grün	do	1 animal				25.00	
30	Wm. H. Craig	Kings County	1 animal					
30	Milford B. Streeter	do	1 animal					
			Total for month	\$6,298.86	\$952.81	\$386.71	1,320.43	7,237.61
Dec.								
3	Thomas Mulligan	Kings County	24 animals					603.36
3	Henry Bramwell	Queens County	16 animals					360.60
3	do	do	2 animals				53.00	
4	W. J. Watt, et al	Disinfectors	Salaries, November	744.35				
7	Jno. P. Bond	do	Salary and expenses, November	208.00	29.02			
7	A. K. Robertson	do	do	312.00	2.35	.72		
7	R. W. Hickman	do	do	146.80	27.64			
7	Lucian T. Bell	do	do	168.00	45.00			
7	Roscoe R. Bell	do	do	130.40	45.00			
7	J. S. Candee	do	do	130.40	30.00			
9	Ch. B. Michener	do	do	240.00	11.53			
9	Henry B. Ambler	do	do	192.00	7.71			
9	U. S. Vantorhoff	do	do	130.40	45.00			
9	Edward Devoe	Clerk	Salary for November	130.40				
9	Daniel G. Hatch	do	do	114.20				
9	Jas. B. Docharty	do	do	97.80				
9	Chas. A. Wilcox	do	do	81.60	1.90			
9	J. F. Kilbier	do	Salary and expenses, November	81.60				
9	Jos. J. Hearne	do	Salary for November	81.60				
9	Adolph Bevers	do	do	81.60				
9	W. Judson Smith	do	Salary and expenses, November 1 to 10 and 17 to 30.	200.00	92.32	20.60		
10	J. Sumner Sargent	Assistant inspector	do	81.60	30.00			
10	John J. Rapelye	do	do	81.60	30.00			
10	Frank H. Pendleton	do	do	81.60	30.00			
10	Austin Cornwell	do	do	81.60	30.00			
10	Michael Nau	do	do	81.60	30.00			
10	P. C. Vandewater	do	do	81.60	30.00			

10	Chas. H. Perry	do	10.37	114.20	10.37			
10	Richard Kay	do	8.98	130.40				
10	Geo. G. Van Mater	do	41.39	114.20	41.39			
10	N. H. Paaren	do	7.72	184.00	7.72			
10	Gustave L. Cohn	Salary for November		30.00				
10	Chas. A. Forschew	do		81.00				
10	P. J. McIntyre	do		81.00				
10	Alex. Devlin, Jr	do		81.00				
10	James Smith	do		81.00				
10	Hiram Jerome	do		81.00				
10	C. Frank	do		10.00				
11	Ellwood Valentine	Salary and expenses, November	33.42					
11	Wm. Bulmer	do	31.57	81.60				
11	Wm. Ramsey	do	11.07	81.60				
11	Wm. H. Bogart	do	10.37	81.60				
11	John H. Eadie	do	10.17	81.60				
11	John Mesick	do	10.12	81.60				
11	Wm W. Hughes	do	9.10	81.60				
11	Leon E. Lock	do	7.92	81.60				
11	O. P. Vandenberg	do	7.74	81.60				
11	Henry Brister	do	6.62	81.60				
11	Chas. E. Grogan	do	5.87	81.60				
11	E. H. Flavin	do	5.28	81.60				
11	Wm. J. Taylor	do	4.92	81.60				
11	Jereiah Connors	do	3.92	81.60				
11	Chester H. Bliss	do	1.94	81.60				
11	D. E. Salmon	Expenses, October 21 to 26	18.60					
11	Jos. H. Storm	Salary and expenses, November	109.72	97.80				
13	Miles Adams	do	73.22	97.80				
13	A. K. Robertson	Expenses, November	22.21					
13	Mason, Chapin & Co.	Bleaching powder	109.64					
13	John Bingham	Stationery	34.23					
13	John H. Burtis	Office rent	45.00					
13	Edward Devos	Desk	25.00					
13	The Nassau Gaslight Company	Charges	9.76					
16	J. Elmer Ryder	Salary and expenses, November	37.52	130.40				
18	Brook & Lindemann	Carpentry	59.43					
18	J. M. Bacon & Co	Fuel	27.50					
18	The Metropolitan Telephone and Telegraph Company	Exchange rental and tolls	9.88					
21	Owens & Co	Coal	5.50					
23	J. M. Hewlett	12 animals		310.84				625.06
23	do	30 animals						
23	Thomas McGee	6 animals		112.63				865.57
23	do	40 animals						12.00
23	Anna Schmidt	1 animal						22.36
23	Fred Newveiler	1 animal						18.23
23	Sarah Collins	1 animal						15.00
23	Charles Gartner	1 animal						12.00
23	Charles E. Hayes	1 animal						5.00
23	Mary Jane Whelan	1 animal						
30	H. D. Gill	Salary and expenses, November	51.52	130.40				

Expended from the appropriation for 1889-'90 by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Dec. 31	Daniel G. Hatch	Clerk	Salary for December.	\$117.90				
31	Richard Kelly	Kings County	3 animals				\$75.82	\$850.10
31	do	do	39 animals					105.00
31	do	Queens County	4 animals					
31	Albert Lichtenheldt	do	6 animals				161.83	
31	do	do	Total for month.	\$12,197.79	\$1,050.05	\$389.49	729.12	3,479.28
1890.								
Jan. 4	Edward Devroe	Clerk	Salary for December.	134.80				
4	Jas. B. Docharty	do	do	101.10				
4	Jas. J. Heane	do	do	84.20				
4	J. E. Kihner	do	do	84.20				
4	Chas. A. Forshaw	do	do	84.20				
4	W. J. Watt <i>et al</i>	Disinfectors	Salaries, December.	812.90				
7	Ch. B. Michener	do	Salary and expenses, December.	248.00		1.20		
7	R. W. Hickman	do	do	151.00				
7	Wm. Bulmer	Assistant inspector.	do	84.20				
7	Jeremiah Connors	do	do	84.20				
7	Chas. H. Perry	do	do	117.90				
7	Roscoe R. Bell	do	do	134.80				
7	H. D. Gill	do	do	134.80	45.00			
7	H. S. Vanderhoff	do	do	84.20				
7	Adolph Beyers	Clerk	Salary for December.	84.20				
7	Alex. Devlin, jr.	Assistant inspector.	do	31.00				
7	G. L. Collin	do	do	134.80				
7	J. S. Candee	do	do	30.00				
8	Ellwood Valentine	Assistant inspector.	Salary and expenses, December.	34.52				
8	William Ramsey	do	do	84.20				
8	Wm. W. Hughes	do	do	84.20	8.92			
8	John Mestek	do	do	84.20	7.97			
8	O. P. Vandenbergh	do	do	84.20	7.26			
8	Chas. E. Grogan	do	do	84.20	6.63			
8	Wm. J. Taylor	do	do	84.20	5.82			
8	E. H. Flavin	do	do	84.20	5.47			
8	John H. Eadie	do	do	84.20	3.39			
8	Chester H. Bliss	do	do	84.20	.92			
8	G. A. Wilcox	Clerk	do	84.20				
8	F. H. Pendleton	Assistant inspector.	do	84.20				
8	J. S. Sargent	do	do	84.20				
8	Austin Cornwell	do	do	84.20				

8	P. C. Vandewater.	do	do	do	do	84.20	30.00		
8	Michael Nau.	do	do	do	do	84.20	30.00		
8	James Smith.	do	do	do	Salary for December.	84.20			
8	Efram Jerome.	do	do	do	do	84.20			
10	W. Judson Smith.	do	do	do	Salary and expenses, December.	200.00	88.05		
10	Wm. H. Bogart.	do	do	do	do	84.20	11.07		
10	Frank Hallenbeck.	do	do	do	do	84.20	9.58		
10	Geo. Cornish.	do	do	do	do	84.20	7.60		
10	James Welch.	do	do	do	do	84.20	5.17		
10	Jas. R. Taylor.	do	do	do	do	84.20	3.49		
10	C. Frank.	do	do	do	Services, December.	10.00			
16	A. K. Robertson.	do	do	do	Expenses, December.		10.82	11.42	
16	N. H. Paaren.	do	do	do	Salary and expenses, December.	208.00	8.72		
16	Jno. P. Bond.	do	do	do	do	208.00	44.30		
16	Henry B. Ambler.	do	do	do	do	200.00	36.08		
16	Lucian T. Bell.	do	do	do	Salary and expenses, December 22 days.	176.00	45.00		
16	A. K. Robertson.	do	do	do	Salary and expenses, December.	312.00	8.69		
16	Jos. H. Storm.	do	do	do	do	101.10	113.94		
16	Miles Adams.	do	do	do	do	101.10	75.86		
16	Richard Kay.	do	do	do	do	134.80	10.58		
16	John J. Rapelye.	do	do	do	do	84.20	30.00		
16	Leon E. Block.	do	do	do	do	84.20	7.67		
16	Canda & Kane.	do	do	do	Lime.		210.00		
16	The Nassau Gas Light Com- pany.	do	do	do	Charges.		6.08		
16	John H. Burdiss.	Brooklyn	do	do	Office rent.		45.00		
16	The New York and New Jer- sey Telephone Company.	do	do	do	Exchange rental and tolls.		42.00		
16	Bogardus, Ellaby, and Ells- worth.	do	do	do	Hog rings, etc.		22.25		
16	The Metropolitan Telephone and Telegraph Company.	New York.	do	do	Exchange rental and tolls.		13.80		
17	Geo. G. Van Mater.	do	do	do	Salary and expenses, December.	117.90	41.39		
17	John Binham.	New York.	do	do	Stationery.		152.50		
17	Henry Brister.	do	do	do	Salary and expenses, December.	84.20	6.88		
20	Geo. F. Chapman.	Brooklyn	do	do	Case.		30.91		
22	Herman Baumgarten.	Washington	do	do	Tags.		170.00		
25	Magdalena Wackermann.	Kings County	do	do	10 animals.		224.60		
					Total for month.	6,733.30	1,091.17	705.16	224.60
4	W. Judson Smith.	do	do	do	Salaries and expenses, January.	270.00	82.50		
4	Edward Devoe.	Clerk	do	do	Salary for January.	137.80			
4	Daniel G. Hatch.	do	do	do	do	120.60			
4	Jas. B. Docharty.	do	do	do	do	103.30			
4	Chas. A. Forshaw.	do	do	do	do	86.10			
4	Adolph Bevers.	do	do	do	do	86.10			
4	J. F. Kilner.	do	do	do	do	86.10			
4	Chas. A. Wilcox.	do	do	do	do	86.10			
4	Jos. J. Hearn.	do	do	do	do	86.10			
4	Jacob Eltz.	New York	do	do	Coal.		5.25		
4	G. H. Hubbs.	Queens County	do	do	24 animals.				689.16

Feb.

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Feb.	G. H. Hubbs	Queen County	29 animals				\$795.64	\$764.56
4	Max Brenner	do	38 animals					
4	do	do	1 animal				33.00	
4	Gottlieb Kiesel	do	7 animals				181.26	
4	do	do	13 animals					207.69
4	Silas O. Bedell	do	23 animals					295.32
4	Frank S. Mott	Kings County	39 animals					659.49
4	do	do	2 animals				30.07	
4	do	do	21 animals					411.60
6	George H. Abernethy	Assistant inspector	Salary and expenses, January	\$86.10	\$3.62			
6	Wm. Buhner	do	do	86.10	33.12			
6	Jas. E. McMullan	Clerk	Salary for January	86.10				
6	G. L. Cohn	Assistant inspector	do	86.10				
6	Alexander Devlin, jr.	do	do	86.10				
7	Austin Cornwell	do	Salary and expenses, January	86.10	33.42			
7	William Ramsey	do	do	86.10	11.77			
7	Henry Brister	do	do	86.10	10.16			
7	Wm. H. Bogart	do	do	86.10	9.17			
7	Wm. W. Hughes	do	do	86.10	8.87			
7	Wm. J. Taylor	do	do	86.10	7.07			
7	O. P. Vandenberg	do	do	86.10	6.29			
7	James R. Taylor	do	do	86.10	2.72			
7	Michael Nan	do	do	86.10	30.00			
7	John J. Rapelye	do	do	86.10	30.00			
7	James Smith	do	Salary for January	86.10				
7	Hiram Jerome	do	do	779.10				
10	George Cornish	Disinfectors	Salary for January	86.10	5.72			
10	James Welch	Assistant inspector	Salary and expenses for January	86.10	5.10			
10	Chester H. Bliss	do	do	86.10	4.08			
10	Frank Hallenbeck	do	do	86.10	1.47			
10	John P. Bond	do	do	216.00	41.37			
10	Roscoe R. Bell	do	do	137.80	45.00			
10	Richard Kay	do	do	137.80	9.80			
10	Ellwood Valentine	Assistant inspector	do	86.10	34.52			
10	S. T. Velsor	do	Salary and expenses for December	84.20	28.42			
10	John Mesick	do	Salary and expenses for January	86.10	7.07	\$0.70		
10	E. H. Flavin	do	do	86.10	6.57			
10	Chas. E. Grogan	do	do	86.10	6.22			
10	John H. Eadie	do	do	86.10	5.84			

10	C. S. Vosburgh	do	Salary and expenses for January 21 to 31	30.56	1.57	45.00	
10	Frank and J. G. Jenkins, jr	Brooklyn	Office rent for January	10.00			
10	Cornelius Frank	Janitor	Services for January	248.00	13.98		
11	Ch. B. Michener	do	Salary and expenses for January	216.00	44.97		
11	H. B. Ambler	do	do	155.00	68.01		
11	R. W. Hickman	do	do	208.00	10.87		
11	N. H. Paaren	do	do	137.80	45.00		
11	H. D. Gill	do	do	137.80	45.00		
11	H. S. Vanderhoff	do	do	137.80	30.00		
11	J. S. Candee	do	do	120.60	43.45		
11	Geo. G. Van Mater	do	do	120.60	10.72		
11	W. H. Pentry	do	do	86.10	30.00		
11	J. Sumner Sargent	Assistant Inspector	do	86.10	30.00		
11	F. H. Pendleton	do	do	86.67	15.62		
11	J. T. D. Donnelly	do	Salary and expenses for January 6 to 31	324.00	3.62		
12	A. K. Robertson	do	Salary and expenses for January	103.30	113.69		
12	Jos. H. Storm	Appraiser	do	103.30	68.13		
12	Jas. H. Clark	do	do	86.10	32.20		
12	P. C. Vandewater	Assistant Inspector	do	86.10	9.87		
12	Fredk. Metzger	do	do				
14	The Nassau Gas Light Com- pany	Brooklyn	Charges		2.08		
14	John Bingham	New York	Stationery		32.80		
14	Canda & Kane	do	Lime		52.50		
14	John Pauch	Kings County	1 animal				38.59
14	James C. Trader	do	1 animal				13.54
14	Adolph Weber	do	19 animals			428.23	
14	do	do	11 animals				201.69
14	Adam Easer	Queens County	41 animals				911.44
14	do	do	1 animal			15.00	
14	Chas. H. Bedoll	do	16 animals				321.75
14	do	do	13 animals			292.68	
14	Henry Dieckhoff	do	10 animals			229.54	
14	do	do	12 animals				251.00
14	James Carroll	do	3 animals				69.78
14	do	do	2 animals			51.00	
14	Henry Freeman	do	1 animal			11.48	
14	do	do	5 animals				108.45
14	Thomas Erb	do	1 animal				22.31
15	A. K. Robertson	do	Expenses, January		11.06	18.06	
15	Leon E. Block	Assistant Inspector	Salary and expenses, January	86.10	2.72		
15	Chas. H. Perry	do	do	120.60	9.97		
17	J. L. and D. S. Riker	New York	Bleaching powder			120.00	
17	The Metropolitan Telephone and Telegraph Company	do	Exchange rental, and tolls			15.10	
			Total for month	7,346.23	1,110.24	298.09	4,966.37
Mar. 5	Metha Blanke	Queens County	15 animals				368.36
5	do	do	7 animals				99.84
5	Thomas Chatwin	Kings County	11 animals				253.51
5	do	do	do				157.25

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Mar.	Martin Van Sise	Kings County	22 animals					\$309.26
5	do	do	3 animals					
5	do	do	18 animals				\$77.90	237.12
5	Andrew J. Lalor	do	3 animals				73.00	
5	do	do	4 animals				114.00	
5	Nathaniel C. Smith	do	12 animals					117.90
6	do	do	Salary and expenses, February	\$240.00	\$111.95			
6	W. Judson Smith	do	do	108.80	43.88			
6	Geo. G. Van Mater	Assistant Inspector	do	77.80	34.62			
6	William Bulmer	do	do	153.60	45.00			
6	R. W. Hickman	do	do	124.40	45.00			
6	Roscoe R. Bell	do	do	124.40	45.00			
6	H. D. Gill	do	do	124.40	45.00			
6	H. S. Vanderhoff	do	do	124.40	30.00			
6	J. S. Candee	do	do	93.40	30.00			
6	J. T. D. Donnelly	do	do	140.00				
6	Edward Devroe	Clerk	Salary for February	116.00				
6	Daniel G. Hatch	do	do	116.00				
6	Jas. B. Docharty	do	do	77.80				
6	Chas. A. Wilcox	do	do	77.80				
6	J. F. Kilner	do	do	77.80				
6	Chas. A. Forschew	do	do	77.80				
6	Adolph Bevers	do	do	77.80				
6	Jos. J. Hearne	do	do	77.80				
6	Jas. E. McMullan	do	do	77.80				
6	J. J. Rabineau	do	do	77.80				
6	do	do	do	77.80				
7	Ellwood Valentine	Assistant Inspector	Salary and expenses, February	77.80	34.52			
7	Austin Cornwell	do	do	77.80	34.52			
7	F. H. Pendleton	do	do	77.80	30.00			
7	Michael Nan	do	do	77.80	30.00			
7	J. S. Sargent	do	do	77.80	30.00			
7	Wm. Ramsey	do	do	77.80	10.07			
7	O. P. Vandenberg	do	do	77.80	8.01			
7	John Mesick	do	do	77.80	7.77			
7	Leon E. Block	do	do	77.80	7.52			
7	Wm. J. Taylor	do	do	77.80	7.42			
7	Henry Brister	do	do	77.80	5.67			
7	James Smith	do	do	77.80				
7	Hiram Jerome	do	Salary for February	77.80				
7	G. L. Cohn	do	do	77.80				
7	Alex. Devlin, Jr.	do	do	77.80				

			Salary and expenses, February	77.80	30.00	
8	J. J. Rapelye	do	do	77.80	8.01	
8	G. O. Cornish	do	do	77.80	6.27	
8	E. H. Flavin	do	do	77.80	4.34	
8	James Welch	do	do	77.80	4.08	
8	C. S. Vostburgh	do	do	77.80	1.75	
8	Chester H. Bliss	do	do	77.80	1.58	
8	James R. Taylor	do	Salary for February	77.80		
8	Frank Hallenbeck	do	Salaries, February	641.80		
8	W. J. Watt <i>et al</i>	Disinfectors	Salary and expenses, February	224.00	12.93	
11	Ch. B. Michener	do	do	192.00	43.42	
11	Jno. P. Bond	do	do	192.00	43.02	
11	Henry B. Ambler	do	do	200.00	9.37	
11	N. H. Pauven	Appraiser	do	93.40	100.43	
11	Jos. H. Storm	do	do	93.40	63.05	
11	James H. Clark	do	do	140.00	8.42	
11	Richard Kay	do	do	108.80	16.32	
11	W. H. Pendry	do	do	108.80	11.12	
11	Chas. H. Perry	do	do	77.80	11.12	
11	Wm. H. Bogart	Assistant inspector	do	77.80	7.47	
11	Wm. W. Hughes	do	do	77.80	5.17	
11	Chas. E. Grogan	do	do	77.80	4.98	
11	John H. Eadie	do	do			1,252.76
11	Robert Evans	Queens County	81 animals	996.36		
13	do	do	33 animals			242.50
13	F. L. Butzy	Kings County	9 animals			
13	do	do	6 animals			
14	A. K. Robertson	do	Salary and expenses, February	288.00	20.39	
14	do	New York	Expenses, February		\$16.92	
14	John Bingham	Brooklyn	Stationery		47.65	
14	J. M. Bacon & Co.	do	Coal		17.25	
14	C. Frank	Janitor	Services	10.00		
14	Bogardus, Ellaby & Ellsworth	New York	Chain, etc.		6.00	
14	The Nassau Gas-Light Com- pany	Brooklyn	Charges		3.04	
18	Frank & J. G. Jenkins, Jr	do	Office rent		45.00	
19	F. C. Vandewater	Assistant inspector	Salary and expenses, February	77.80	32.80	
19	Fredk. Metzger	do	do	77.80	4.72	
19	Wm. Ramsey	do	Salary and expenses, March 1 to 14	38.89	4.37	
19	Edward Haganman Hall	New York	Stationery		60.00	
19	Canda & Kane	do	Lime		52.50	
19	The Metropolitan Telephone and Telegraph Company	do	Exchange rental and tolls		14.55	
19	Robert H. Austin	Queens County	5 animals	42.61		
19	do	do	30 animals			295.39
19	J. J. Robertson	do	6 animals	143.04		
19	do	do	12 animals			177.08
19	do	do	3 animals	69.00		
19	Timothy Carney	do	2 animals			46.67
19	Timothy P. Ryan	do	1 animal			30.00
19	Valentine L. Combes	do	2 animals			
19	Valentin Biemer	do	1 animal	17.57		
19	Meyer Rosenberg	do	1 animal			15.00
19	Cornelius Herber	do	do			12.00

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Mar. 19	Adam Easer	Queens County	1 animal					\$10.00
19	Christ. Wise	do	do					15.00
19	Charles Gilbert	Kings County	do				\$13.66	210.02
19	do	do	8 animals					273.40
19	Ellen Joyce	do	10 animals					10.00
19	Anne O'Connor	do	2 animal					10.00
19	Jas. J. Campbell	do	do					4.37
19	John Griffin	do	do					
25	S. T. Velsor	Assistant inspector.	Salary and expenses for February	\$77.80	\$33.42			
25	John Carey	Queens County	16 animals				415.90	741.20
25	do	do	37 animals					336.80
25	Philipp Dietz	do	20 animals					
25	do	do	4 animals				65.52	
25	Louis Hegener	do	6 animals					147.64
25	do	do	3 animals				50.88	
			Total for month	6,756.09	1,132.15	\$262.91	2,888.61	4,751.20
				260.00	88.78			760.84
Apr. 3	W. Judson Smith	Queens County	Salary and expenses for March					
4	Edgar Y. Hubbs	do	51 animals				529.02	
4	do	do	10 animals				172.00	
4	Nicholas Fitting	do	7 animals					
4	do	do	do					
4	Lena Binger	do	10 animals					134.00
4	do	do	2 animals					200.00
4	John Rosenthal	do	7 animals				30.54	
4	do	do	4 animals					169.88
4	Geo. D. Mott	do	16 animals				114.68	
4	do	do	2 animals				30.00	224.00
4	James Morton	do	5 animals				154.80	
4	do	Kings County	13 animals					212.40
4	James Smith	do	do					188.75
4	do	do	4 animals				102.75	
5	Edward Devroe	Clerk	Salary for March	155.00				
5	J. B. Docharty	do	do	129.20				
5	D. G. Hatch	do	do	129.20				
5	J. E. McMullan	do	do	86.10				
5	J. J. Rabineau	do	do	86.10				
5	Adolph Bevers	do	do	86.10				
5	J. F. Kilner	do	do	86.10				

5	J. J. Hearne	do	do	86.10			
5	Chas. A. Forshev	do	do	86.10			
5	Chas. A. Wilcox	do	do	86.10			
9	N. H. Faureu	do	Salary and expenses, March	208.00	7.92		
9	J. S. Candee	do	do	137.80	30.00		
9	Richard Kay	do	do	155.00	5.25		
9	J. T. D. Donnelly	do	do	103.30	30.00		
9	Chas. H. Perry	do	do	120.60	7.57		
9	Jno. P. Bond	do	do	208.00	40.97		
10	John Briggs	Assistant Inspector	do	86.10	23.60		
10	Wm. Bulmer	do	do	86.10	36.12		
10	Ellywood Valentine	do	do	86.10	35.62		
10	S. T. Velsor	do	do	86.10	33.62		
10	J. J. Rapelye	do	do	86.10	30.00		
10	J. S. Sargent	do	do	86.10	30.00		
10	Michael Nau	do	do	86.10	30.00		
10	John Mesick	do	do	86.10	8.97		
10	Wm. H. Bogart	do	do	86.10	7.32		
10	Frank Hallenbeck	do	do	86.10	5.37		
10	Fredk. Metzger	do	do	86.10	4.32		
10	C. H. Blass	do	do	86.10	4.31		
10	Henry Brister	do	do	86.10	3.58		
10	Jos. R. Taylor	do	do	86.10	2.42		
10	Samuel Jarvis	do	Salary and expenses, March 15 to 31	47.22	2.17		
10	Wm. Foley	do	do	47.22	1.43		
10	C. H. Gillmore	Queens County	do			991.50	
10	do	do	38 animals			147.14	
10	do	do	6 animals			180.55	
10	Sarah A. Combes	do	15 animals				543.15
10	do	do	41 animals				
10	do	do	1 animal			15.00	
10	Wm. Ferchland	do	22 animals				490.60
10	do	do	6 animals			157.60	
10	John Cartmell	Kings County	do				360.40
10	do	do	18 animals				
11	C. B. Michener	do	Salary and expenses, March	248.00	14.30		
11	H. B. Ambler	do	do	200.00	44.92		
11	H. D. Gill	do	do	137.80	45.00		
11	Geo. G. Van Mater	do	do	120.60	41.78		
11	W. H. Pendry	do	do	120.60	17.82		
11	Wm. J. Taylor	Assistant Inspector	do	86.10	3.87		
11	E. H. Flavin	do	do	86.10	3.32		
11	James Welch	do	Salary for March	86.10			
11	Leon E. Block	do	do	86.10			
11	James Smith	do	do	86.10			
11	Hiram Jerome	do	do	86.10			
11	W. J. Watt et al	Disinfectors	do	86.10			
12	Jos. H. Stumm	Appraiser	Salaries, March	692.60			
12	Roscoe E. Bell	do	Salary and expenses, March	103.30	114.19	2.88	
12	H. S. Vanderhoff	do	do	137.80	45.00		
12	Jas. H. Clark	do	do	137.80	45.00		
12	F. H. Pendleton	Appraiser	do	103.30	64.63	3.72	
12	G. L. Cohn	Assistant Inspector	do	86.10	30.00		
12	Alex. D. vlin, jr	do	Salary for March	86.10			

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Apr 12	C. Frank.....	Janitor.....	Salary for March.....	\$10. 00	\$6. 26			
14	A. K. Robertson.....		Salary and expenses, March.....	312. 00	50. 58			
14	R. W. Hickman.....		do.....	172. 20	28. 88	\$2. 88		
14	Jas. A. Walrath.....	Assistant inspector.....	do.....	86. 10	35. 62			
14	Asmus Cornwell.....	do.....	do.....	86. 10	30. 00			
14	P. C. Vandewater.....	do.....	do.....	86. 10	8. 16			
14	Geo. Cornish.....	do.....	do.....	86. 10	8. 16			
14	O. P. Vandenbeig.....	do.....	do.....	86. 10	5. 57			
14	Wm. W. Hughes.....	do.....	do.....	86. 10	3. 17			
14	Chas. E. Grogan.....	do.....	Expenses, March.....	86. 10	10. 86	24. 42		
14	A. K. Robertson.....		Exchange rental, and tolls.....			38. 45		
14	The New York and New Jersey Telephone Company.....	Brooklyn.....	do.....			15. 60		
14	The Metropolitan Telephone and Telegraph Company.....	New York.....	Charges.....			3. 36		
14	The Nassau Gas Light Company.....	Brooklyn.....	Printing blanks.....			4. 75		
14	Edward H. Hall.....	New York.....	Coal.....			11. 00		
14	Owens & Co.....	do.....	Lime.....			52. 50		
14	Canda & Kane.....	do.....	Office rent.....			45. 00		
14	Frank & J. G. Jenkins, Jr.....	Brooklyn.....	Salary and expenses, April 1 to 15.....	41. 21	21. 12			
18	Wm. Bulmer.....	Assistant inspector.....	Salary and expenses March.....	86. 10	6. 46			
18	C. S. Vosburgh.....	do.....	Hose.....			5. 90		
18	Metropolitan Rubber Company.....	New York.....	Fire screen.....			4. 00		
18	Chas. Berglund.....	do.....	Hog rings.....			18. 00		
18	Bogardus, Ellaby & Ellisworth.....	do.....	Stationery.....			33. 40		
18	John Bingham.....	Assistant inspector.....	Salary for March 24 days.....	66. 67				
18	John H. Eadie.....	Kings County.....	1 animal.....					\$15. 00
18	Adolph Weber.....	Queens County.....	27 animals.....					344. 08
18	George A. Van Sise.....	do.....	9 animals.....			\$183. 32		
18	do.....	do.....	14 animals.....			15. 00		465. 36
18	Frank G. Rensen.....	do.....	1 animal.....					322. 24
18	do.....	do.....	11 animals.....					281. 10
18	Peter Baumbauer.....	do.....	1 animal.....			33. 00		
18	do.....	do.....	11 animals.....			73. 20		
18	George Hauff.....	do.....	4 animals.....					103. 95
18	do.....	do.....	4 animals.....					
18	Valentine Pfaff.....	do.....	4 animals.....					

18	do	do	2 animals	38.00	853.50
18	Charles H. Ryan	Kings County	58 animals	53.00	53.00
18	do	do	2 animals	43.53	43.53
18	Susan Douglas	do	2 animals		166.77
18	do	do	9 animals		13.00
18	do	do	1 animal		
18	Frank S. Mott	Washington	Tags	170.00	204.60
19	Herman Baumgarten	do	14 animals		262.40
21	George Steblin	Kings County	13 animals		457.78
21	do	do	17 animals		
21	Henry Bramwell	Queens County	7 animals	127.34	127.34
21	do	do			
Total for month.....\$19,341.50				2,465.07	7,622.70
				435.86	
				1,155.55	
				73.00	1,182.50
May	Frank S. Mott	Kings County	41 animals		
1	do	do	3 animals		
5	Edward Devoe	Clerk	Salary for April	148.30	
5	D. G. Hatch	do	do	123.00	
5	J. B. Docharty	do	do	123.60	
5	Chas. A. Wilcox	do	Salary and expenses for April	82.40	1.07
5	Jos. J. Hearne	do	Salary for April	82.40	
5	Leon E. Block	Assistant inspector	do	82.40	
5	J. F. Kilner	Clerk	do	82.40	
5	J. J. Rabineau	do	do	82.40	
5	C. B. Michener	do	Salary and expenses for April	232.00	
6	N. H. Paaren	do	do	208.00	21.84
6	R. W. Hickman	do	do	104.80	9.17
6	H. S. Vanderhoff	do	do	131.90	47.22
6	Roscal R. Bell	do	do	131.90	50.42
6	J. S. Candee	do	do	131.90	45.00
6	Richard Kay	do	do	148.30	30.00
6	Chas. H. Perry	do	do	115.40	5.98
6	C. A. Forshew	Clerk	do	82.40	3.22
6	Adolph Bevers	do	do	82.40	5.17
7	W. J. Watt <i>et al</i>	do	Salary for April	693.40	
7	H. B. Ambler	Disinfectors	Salaries for April	208.00	
7	J. A. Warath	do	Salary and expenses for April	104.80	44.32
7	Geo. G. Van Mater	do	do	115.40	26.47
7	W. H. Pendry	do	do	115.40	39.15
7	Austin Cornwell	do	do	82.40	14.23
7	Michael Nan	Assistant inspector	do	82.40	33.42
7	J. S. Sargeant	do	do	82.40	30.82
7	F. H. Pendleton	do	do	82.40	30.00
7	John Mesick	do	do	82.40	30.00
7	Frank Hallenbeck	do	do	82.40	8.92
7	Chas. E. Grogan	do	do	82.40	8.14
7	Henry Brister	do	do	82.40	6.57
7	W. W. Hughes	do	do	82.40	6.07
7	O. P. Vandenberg	do	do	82.40	4.17
7	C. A. Bliss	do	do	82.40	4.03
7	Wm. J. Taylor	do	do	82.40	3.53
7	E. H. Flavin	do	do	82.40	2.92
7		do	do	82.40	2.23

June	Queens County.	14 animals 2 animals 2 animals 2 animals 1 animal 1 animal Salary for May	14 animals 2 animals 2 animals 2 animals 1 animal 1 animal Salary for May	14 animals 2 animals 2 animals 2 animals 1 animal 1 animal Salary for May	14 animals 2 animals 2 animals 2 animals 1 animal 1 animal Salary for May	14 animals 2 animals 2 animals 2 animals 1 animal 1 animal Salary for May
3	Laura E. Jones	do	do	do	do	do
3	do	do	do	do	do	do
3	Samuel Strauss	do	do	do	do	do
3	Henry Dolt	do	do	do	do	do
3	John Loeffler	do	do	do	do	do
4	James B. Docharty	do	do	do	do	do
4	J. J. Rabineau	do	do	do	do	do
4	W. J. Watt <i>et al.</i>	do	do	do	do	do
5	W. Judson Smith	do	do	do	do	do
5	R. W. Hickman	do	do	do	do	do
5	H. D. Gill	do	do	do	do	do
5	E. R. Bell	do	do	do	do	do
5	J. T. P. Donnelly	do	do	do	do	do
5	J. J. Rapelye	do	do	do	do	do
5	J. S. Sargent	do	do	do	do	do
5	F. H. Pendleton	do	do	do	do	do
5	O. P. Vandenberg	do	do	do	do	do
5	Jas. R. Taylor	do	do	do	do	do
5	Edward Devoe	do	do	do	do	do
5	D. G. Hatch	do	do	do	do	do
5	Hiram Jerome	do	do	do	do	do
5	James Smith	do	do	do	do	do
5	John H. Eadie	do	do	do	do	do
5	Alex. Devlin, jr	do	do	do	do	do
5	G. L. Cohn	do	do	do	do	do
5	Adolph Bevers	do	do	do	do	do
5	William Foley	do	do	do	do	do
5	J. J. Hearne	do	do	do	do	do
5	L. E. Block	do	do	do	do	do
5	William H. Bogart	do	do	do	do	do
5	J. F. Kilner	do	do	do	do	do
5	C. Frank	do	do	do	do	do
5	N. H. Paaren	do	do	do	do	do
6	Charles A. Wilcox	do	do	do	do	do
6	Charles A. Forshaw	do	do	do	do	do
6	William J. Taylor	do	do	do	do	do
6	Frederick Metzger	do	do	do	do	do
6	C. S. Vosburgh	do	do	do	do	do
6	E. H. Flaven	do	do	do	do	do
6	George Cornish	do	do	do	do	do
6	H. B. Ambler	do	do	do	do	do
9	C. B. Michener	do	do	do	do	do
9	H. S. Vanderhoof	do	do	do	do	do
9	James H. Clark	do	do	do	do	do
9	George G. Van Mater	do	do	do	do	do
9	Richard Kay	do	do	do	do	do
9	Charles H. Perry	do	do	do	do	do
9	Joseph H. Storm	do	do	do	do	do
10	James A. Walrath	do	do	do	do	do
10	W. H. Pendry	do	do	do	do	do
10	Edwood Valentine	do	do	do	do	do
10	P. C. Vandewater	do	do	do	do	do

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
June 10	Michael Nau.....	Assistant inspector.....	Salary and expenses, May.....	\$85.20	\$32.22			
10	Samuel Jarvis.....	do.....	do.....	85.20	8.92			
10	John Musick.....	do.....	do.....	85.20	8.67			
10	C. E. Grogan.....	do.....	do.....	85.20	5.32			
10	David Holland.....	Disinfecter.....	Salary for May 13 to 24.....	24.75				
11	S. T. Velsor.....	Assistant inspector.....	Salary and expenses, May.....	85.20	35.62	\$0.35		
11	Austin Cornwell.....	do.....	do.....	85.20	34.52			
11	F. Hallenbeck.....	do.....	do.....	85.20	8.27			
11	William W. Hughes.....	do.....	do.....	85.20	8.92			
11	C. H. Bliss.....	do.....	do.....	85.20	4.55			
11	James Welch.....	do.....	do.....	85.20	3.08			
12	Henry Brister.....	do.....	do.....	85.20	6.53			
14	Brooklyn Union Publishing Company.....	do.....	do.....	85.20				
14	Brooklyn Times.....	Brooklyn.....	Advertising.....	18.90		18.90		
14	Robert S. Forbes.....	do.....	do.....	15.12		15.12		
16	Earl A. Gillespie.....	East New York.....	Expenses, June 9-12.....		25.03			
16	John Ringham.....	New York.....	Lumber.....			137.84		
16	Wing & Evans.....	do.....	Stationery.....			135.55		
16	Cand & Kane.....	do.....	Bleaching powder.....			105.57		
16	F. & J. G. Jenkins, Jr.....	Brooklyn.....	Line.....			32.50		
16	Bogardus, Ellaby & Ellsworth.....	New York.....	Office rent.....			45.00		
16	J. J. Little & Co.....	do.....	Jackscrews, etc.....			41.00		
16	The Nassau Gas Light Co.....	Brooklyn.....	Blanks.....			40.60		
18	A. K. Robertson.....	do.....	Charges.....			2.56		
18	do.....	do.....	Salary and expenses, May.....	324.00	21.85			
18	do.....	do.....	Expenses, May.....		12.02	48.92		
18	The Metropolitan Telephone and Telegraph Company.....	New York.....	Exchange rental and tolls.....			15.15		
18	Albert Lichtenbelt.....	Queens County.....	3 animals.....					\$64.84
18	do.....	do.....	5 animals.....				\$185.00	
21	Metropolitan Rubber Company.....	New York.....	Hose.....			5.40		
23	Brooklyn Daily Eagle.....	do.....	Advertising.....			17.10		
30	D. E. Salmon.....	do.....	Expenses, June 3-5.....		27.15			
			Total for month.....	7,453.10	1,127.88	683.06	244.82	553.80
July 3	D. G. Hatch.....	Clerk.....	Salary for June.....	123.60				
7	C. B. Michener.....	do.....	Salary and expenses, June.....	240.00	11.29			
7	Henry B. Ambler.....	do.....	do.....	200.00	44.32			

Expended from the appropriation of 1889-'90—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890, July	P. C. Vandewater	Assistant inspector	Salary and expenses, June	\$22.40	\$21.52			
8	F. H. Pendleton	do	do	30.00	30.00			
8	C. A. Forschew	do	do	82.40	6.72			
8	William J. Taylor	do	do	82.40	5.72			
8	William W. Hughes	do	do	82.40	5.72			
8	James R. Taylor	do	do	82.40	5.12			
8	John Mesick	do	do	82.40	4.74			
8	Henry Brister	do	do	82.40	4.62			
8	C. H. Bliss	do	do	82.40	4.18			
8	O. P. Vandenberg	do	do	82.40	2.92			
8	Charles H. Perry	do	Salary for June	115.40				
8	Alex. Devlin, Jr.	Assistant inspector	do	82.40				
8	John H. Eadie	do	do	82.40				
8	Hiram Jerome	do	do	82.40				
8	Adolph Beyers	Clerk	do	82.40				
8	James Smith	Assistant inspector	do	82.40				
8	G. L. Cohn	do	do	82.40				
8	E. H. Flavin	do	do	82.40				
8	W. Judson Smith	do	Salary and expenses, June	250.00	155.25			
9	F. Hallenbeck	Assistant inspector	do	82.40	8.12			
9	Samuel Jarvis	do	do	82.40	5.67			
9	Fred'k Metzger	do	do	82.40	4.52			
9	C. S. Vosburgh	do	do	82.40	4.27			
9	George Cornish	do	do	82.40	3.10			
9	James Welch	do	do	82.40	2.98			
9	B. B. Mullen	do	Salary and expenses, June 10 to 30	57.69	4.72			
9	Gerrude V. C. Rapelye, administratrix of J. J. Rapelye.	do	Salary and expenses, June 1 to 12	32.97	12.00			
9	William Foley	do	Salary for June	82.40				
9	C. Frank	Janitor	Services, June	10.00				
9	The Nassau Gas Light Co.	Brooklyn	Charges			\$3.04		
11	A. K. Robertson	Appraiser	Salary and expenses, June	300.00	14.64			
11	Joseph H. Storm	do	do	98.90	112.72			
11	James H. Clark	do	do	98.90	67.22			
11	W. H. Pendry	do	do	115.40	13.92	7.32		
11	J. T. D. Donnelly	do	do	98.90	30.00			
11	S. T. Vokor	Assistant inspector	do	82.40	34.52			
11	Michael Nan	do	do	82.40	31.52			
11	J. S. Sargent	do	do	82.40	30.00			
11	Chas. E. Grogan	do	do	82.40	8.22			

19	Earl A. Gillespie.....	East New York	Lumber.....	200.20			
19	Albert Liechtenheldt.....	Queens County	Destruction of barn.....	200.00			
19	John Bingham.....	New York	Stationery.....	56.95			
19	F. and J. G. Jenkins, Jr.....	Brooklyn	Office rent.....	45.00			
19	Canda & Kane.....	New York	Lime.....	26.25			
19	The Metropolitan Telephone and Telegraph Company.....	do	Exchange rental and tolls.....	13.50			
19	Bogardus, Ellaby & Ellsworth.....	do	Wire cutters, etc.....	8.25			
25	A. K. Robertson.....	Kings County	Expenses, June.....	39.60			
25	C. H. Dahl.....	do	15 animals.....	11.37			
25	Abraham Ruth.....	do	11 animals.....				\$470.66
25	Charles Gilbert.....	do	10 animals.....				336.90
25	Henry A. Nichols.....	do	do.....				327.00
25	Samuel Ruderman.....	do	3 animals.....				307.52
25	Elizabeth Brocst.....	do	do.....				86.07
25	Elias Kaplan.....	do	1 animal.....				83.07
25	Hannah Bennett.....	do	do.....				37.69
			Total for month.....				32.70
					7,600.71	1,106.90	638.76
							\$1,280.59
							6,199.77
Aug. 8	Michael Callahan.....	Queens County	Destruction of barn.....	160.00			
8	Thos. Lawler.....	do	do.....	250.00			
8	George Steblin.....	Kings County	do.....	600.00			
8	Thomas McGee.....	do	do.....	800.00			
14	Adam Koeller.....	Queens County	do.....	1,000.00			
28	John O'Donnell.....	"Jamaica Standard"	Advertising.....	4.00			
28	Michael Grin.....	Queens County	17 animals.....				426.90
28	do.....	do	1 animal.....			20.77	
28	Nikolas Enners.....	do	do.....			26.21	
28	do.....	do	8 animals.....			845.00	
28	Henry Doht.....	do	17 animals.....				231.54
28	do.....	do	38 animals.....				1,161.48
28	John J. Gorr.....	do	13 animals.....				359.97
28	Henry Dieckhoff.....	do	12 animals.....				266.41
28	Michael F. Quinn.....	do	10 animals.....				221.88
28	Friedrich Koch.....	do	6 animals.....				179.25
28	Joseph Nibel.....	do	2 animals.....				53.65
28	John Welz.....	do	do.....				56.86
28	do.....	do	1 animal.....			28.43	
28	Thomas Mulligan.....	Kings County	do.....				31.68
28	Valentin Biemer.....	do	do.....				27.69
28	John Buffett.....	do	do.....				9.05
28	The Metropolitan Telephone and Telegraph Company.....	New York	Tolls.....	1.15			
			Total for month.....				3,028.39
							2,815.15
							1,274.91
Sept. 4	Jas. J. Campbell.....	Kings County	39 animals.....				325.00
4	Joseph Ledoux.....	do	13 animals.....				27.67
4	Chas. H. Ryan.....	do	1 animal.....				762.32
4	Geo. Hoffman.....	Queens County	38 animals.....				258.05
4	Jacob Batsel.....	do	13 animals.....				

Expended from the appropriation for 1889-'90, by States—Continued.

NEW YORK—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Sept. 4	John Mewhinney	Queen County	5 animals					\$160.00
4	Arthur A. Robinson	do	3 animals					91.53
4	John Sahy	do	1 animal					23.09
26	Theodore Dohrt	do	2 animals				\$51.71	
26	do	do	41 animals					1,241.00
26	Hugh Kenny	Kings County	18 animals					547.00
			Total for month	\$4,764.08			51.71	4,712.37
			Grand total	\$82,386.60	\$12,619.26	\$8,445.71	15,756.37	55,744.54

NEW JERSEY.

1889.								
July 25	Frank Wolleon	Hudson County	17 animals					\$445.50
25	do	do	1 animal				\$20.00	
30	A. Johnson	do	3 animals				75.00	
30	do	do	18 animals					482.00
30	Mary Hanan	do	3 animals				70.00	
30	do	do	5 animals					134.00
			Total for month	\$1,226.50			165.00	1,061.50
10	Wm. B. E. Miller		Salary and expenses, July	\$134.80				
10	Werner Runge		do	117.90	\$61.30			
10	H. D. Gill		do	134.80	67.60			
10	W. H. Cooper		do	117.90	45.00			
10	Julius Hudson		do	117.90	51.15			
10	Ira C. Kilburn	Assistant Inspector	do	84.20	9.35			
10	J. H. Phelan	do	do	84.20	51.64			
10	Thos. Crozer	do	do	84.20	35.30			
10	Jos. Locke	do	do	84.20	34.70			
10	B. S. Watson	do	do	84.20	32.85			
10	R. A. Lettis	do	do	84.20	31.40			
10	Simon Kelly	do	do	84.20	31.30			
10	Fred'k Bluen	do	do	84.20	26.05			
				84.20	24.85			

10	John J. Smith	do	do	do	84.20	23.85			
10	James Cassey	do	do	do	84.20	21.85			
10	James McGirr	do	do	do	84.20	20.25			
10	Melvin Doremus	do	do	do	84.20	15.85			
10	Wm. Taylor	do	do	Salary and expenses July 1 to 7 and 21 to 31					
10	David R. Hobart	do	do	Salary and expenses for July	76.09	21.55			
10	George C. Toffey	do	do	do	84.20	5.45			
10	Ward L. Ferguson	do	do	do	84.20	5.45			
10	Harvey Ostrander	do	do	do	84.20	5.45			
10	H. W. Rowland	do	do	do	84.20	4.05			
10	W. W. Curry	do	do	do	117.90	45.00			
10	W. A. Willard	Clerk	do	Salary for July	117.90				
10	B. D. Phillips	do	do	do	101.10				
10	C. D. Noonan	do	do	do	70.80				
10	Jas. F. McCullough et al	Disinfectors	do	Salaries, July	872.25				
10	Martin Gibbons	Hudson County	do	1 animal					
10	John Maloney	do	do	do					
10	Joseph Corbett	Janitor	do	Services	5.00				
10	Adams & Co.	Map	do	Map		10.00			
12	J. L. and D. S. Riker	do	do	New York		38.77			
12	do	do	do	Bleaching powder		34.58			
12	J. A. Lawson	do	do	Wire, etc		12.30			
12	Gleason and Bailey Manufac-	Jersey City	do	do					
12	turing Company	New York	do	Master pump, etc		8.50			
12	George Fick	Jersey City	do	Rent store room		6.00			
12	Jas. P. Hall	do	do	Lime		31.25			
12	do	do	do	do		62.50			
14	F. H. Spengeman	do	do	Office rent		50.00			
14	Thomas Carney	Hudson County	do	1 animal					
14	Thomas F. Noonan	do	do	do					
14	Patrick Lynch	Hudson County	do	1 animal		35.00			
14	do	do	do	19 animals					
14	Louis Hellbrunn	do	do	1 animal		10.00			
14	do	do	do	9 animals					
17	J. W. Hawk	do	do	Salary and expenses, July					
26	Mary Egan	Hudson County	do	1 animal	168.50	365.01			
26	James Burke	do	do	1 animal					
26	Ellen Anglessea	do	do	1 animal					
26	do	do	do	1 animal					
26	The Jersey City Printing	do	do	Blanks					
26	Company	do	do	do					
					Total for month	\$5,877.74			
6	Julius Huelsen	Assistant inspector	do	Salary and expenses, August	3,617.94	1,081.25	277.55	75.00	823.00
6	Thos. Crozer	do	do	do	117.90	9.85			
6	Geo. C. Toffey	do	do	do	84.20	34.80			
6	Ward L. Ferguson	do	do	do	84.20	5.65			
6	David R. Hobart	do	do	do	84.20	5.65			
6	Joseph Locke	do	do	do	84.20	5.65			
6	do	do	do	do	84.20	33.55			

Sept.

Aug.

Expended from the appropriation for 1889-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Sept. 6	James Cassey	Assistant inspector	Salary and expenses, August	\$84.20	\$22.80			
6	Melvin Doremus	do	do	84.20	16.45			
6	Simon Kelly	do	do	84.20	26.60			
6	B. S. Watson	do	do	84.20	30.60			
6	William E. E. Miller	do	do	134.80	53.25			
6	R. R. Letts	Assistant inspector	do	84.20	29.45			
6	Werner Runge	do	do	117.90	62.25			
6	J. H. Phelan	Assistant inspector	do	84.20	35.30			
6	J. J. Smith	do	do	84.20	21.55			
6	James McGirr	do	do	84.20	19.90			
6	Fredk. Blum	do	Salary and expenses, August 1 to 27	73.37	24.40			
6	Harvey Ostrander	do	do	84.20	7.85			
6	Wm. Taylor	do	Salary and expenses, August 1 to 12 and 24 to 31	54.35	13.30			
6	H. D. Gill	do	do	134.80	45.00			
6	H. W. Rowland	do	do	117.90	45.00			
6	W. A. Willard	Clerk	Salary for August	117.90				
6	C. D. Noonan	do	do	70.80				
6	E. D. Phillips	do	do	101.10				
6	Otto W. Meyer <i>et al.</i>	Disinfectors	Salaries, August	681.75				
6	J. L. and D. S. Riker	New York	Bleaching powder			\$47.77		
6	George Fick	Jersey City	Rent storeroom			6.00		
6	Joseph Corbert	Janitor	Services	5.00				
6	F. H. Spengeman	Jersey City	Office rent			50.00		
11	W. H. Cooper	do	Salary and expenses, August	117.90	60.50			
11	W. W. Curry	do	do	117.90	45.00			
11	J. A. Lawson	Jersey City	Shovels, etc			11.00		
11	Jas. P. Hall	do	Lime			83.75		
18	J. W. Hayk	do	Salary and expenses, August	168.50	69.70	3.50		
18	Ira C. Kilburn	Assistant inspector	do	84.20	56.79			\$2,334.00
18	H. Feinberg	Hudson County	88 animals				\$78.00	
18	do	do	2 animals					10.00
18	Paulina Hanel	do	21 animals					504.50
18	John Dempsey	Essex County	1 animal					266.00
18	Charles Stecher	do	10 animals					
18	do	do	4 animals				105.00	
18	Jonathan Force	do	1 animal					25.00
19	Ann Donahue	Hudson County	1 animal				20.00	

23 24	W. H. Wray Gleason & Bailey Manufac- turing Company	New York	Salary for September 18 to 21. Rubber packing, etc.	Total for month.....\$7,762.33	32.00	10.10	203.00	3,130.56
Oct. 9	W. H. Wray		Expenses, September 18 to 28, and salary, September 23 to 28.....	48.00				
12	J. W. Hawk		Salary and expenses for September.	163.00		4.50		
12	Wm. B. E. Miller		do	130.40				
12	W. H. Cooper		do	114.20				
12	Werner Runge		do	114.20				
12	H. W. Kowland		do	114.20				
12	Ira C. Kilburn	Assistant Inspector	do	81.60				
12	Julius Huelsen	do	do	114.20				
12	Thos. Crozer	Assistant Inspector	do	81.60				
12	J. H. Phelan	do	do	81.60				
12	Joseph Locke	do	do	81.60				
12	B. S. Watson	do	do	81.60				
12	R. R. Letts	do	do	81.60				
12	Simon Kelly	do	do	81.60				
12	Fredk Rhem	do	do	81.60				
12	James Cassey	do	do	81.60				
12	James McGirr	do	do	81.60				
12	Melvin Doremus	do	do	81.60				
12	John J. Smith	do	do	81.60				
12	Geo. C. Toffey	do	Salary and expenses, September, 25 days.	67.93				
12	Ward L. Ferguson	do	Salary and expenses, September	81.60				
12	Harvey Ostrander	do	do	81.60				
12	Wm. Taylor	do	Salary and expenses September 1 to 9.	24.46				
12	J. W. Hawk	do	Expenses, September	13.75				
12	H. D. Gill	do	Salary and expenses, September	77.28		7.62		
12	W. W. Churry	do	do	130.40				
12	W. A. Willard	Clerk	Salary for September	114.20				
12	F. H. Spengeman	Jersey City	Office rent.	114.20				
12	J. L. & D. S. Riker	New York	Bleaching powder	50.00				
12	J. A. Lawson	Jersey City	Scrapers, etc.	32.22				
12	George Fick	do	Rent storeroom	12.50				
12	B. D. Phillips	Clerk	Salary and expenses, September.	6.00				
12	C. D. Noonan	do	do	97.80				
12	Joseph Corbert	Janitor	do	68.40				
12	Lewis T. Howell	Somerset County	Services	5.00				
12	do	do	11 animals					266.00
12	do	do	4 animals				90.00	
12	George W. Cotes	Camden County	1 animal				25.00	
12	Barbara Sturm	Hudson County	1 animal					20.00
12	John B. Deacon	Burlington County	1 animal					15.00
12	Chas. Heath	Essex County	1 animal					25.00
12	N. T. Hogan	do	1 animal					20.00
12	David R. Hobart	Assistant Inspector	Salary and expenses, September	81.60				
14	Otto W. Meyer et al.	Disinfectors	Salaries, September	5.25				
16	James P. Hall	Jersey City	Lime	604.25		93.75		

Expended from the appropriation for 1880-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890. Oct. 16	Metropolitan Rubber Company.	New York.	Hose			\$10.80		
18	The Newark Lime and Cement Manufacturing Company.	Hudson County.	Line 1 animal			4.48		\$15.00
26	Patrick Lynch.		Total for month	\$3,248.84	\$991.03	221.87	\$115.00	361.00
Nov. 6	Julius Hensen.		Salary and expenses, October	117.90	10.15			
6	H. D. Gill.		do	134.80	45.00			
6	O. W. Meyer <i>et al</i> .	Disinfectors.	Salaries, October.	517.75				
6	Jacob T. Van Nostrand.	Somerset County	1 animal					20.00
6	Peter V. Campbell.	do	do					15.00
6	E. B. Everitt.	do	do					6.00
7	Wm. B. E. Miller.		Salary and expenses, October	134.80	106.09			
7	W. W. Curry.		do	117.90	120.11			
7	H. W. Rowland.		do	117.90	64.05			
7	W. A. Willard.	Clerk.	do	117.90	16.17			
7	R. R. Letts.	Assistant inspector.	do	38.04	16.40			
7	do	Inspector.	Salary and expenses, October 1 to 14	53.43	19.65			
7	C. D. Noonan.	Clerk.	Salary for October	70.80				
8	Werner Runge.	Assistant inspector.	Salary and expenses, October	117.90	68.35			
8	Ira C. Kilburn.	do	do	84.20	62.90			
8	Joseph Locke.	do	do	84.20	34.95			
8	Simon Kelly.	do	do	84.20	26.25			
8	Fredk. Blum.	do	do	84.20	24.05			
8	James Cassey.	do	do	84.20	22.70			
8	James McGirr.	do	do	84.20	19.70			
8	Malvin Doremus.	do	do	84.20	16.45			
8	Harvey Ostrander.	do	do	84.20	4.45			
9	John J. Smith.	do	do	84.20	25.95			
9	Ward L. Ferguson.	do	do	84.20	5.65			
9	Geo. C. Tolley.	do	do	84.20	5.65			
9	D. R. Hobart.	do	do	84.20	5.65			
9	W. H. Wray.	do	do	84.20	8.85			
9	George Fick.	Jersey City.	Salary and expenses, October 2 and 3	16.00		5.00		
15	J. W. Hawk.	Rent storeroom	Salary and expenses, October	168.50	105.53			
15	J. H. Phelan.	Assistant inspector	do	84.20	39.40			
15	Thos. Crozer.	do	do	84.20	60.65			

15	W. H. Cooper	Assistant inspector	do	117.90	101.38		
15	B. S. Watson	Janitor	do	84.20	32.35		
15	Joseph Corbett	Jersey City	Services	5.00			
15	F. H. Spengeman	do	Office rent		50.00		
15	New York Dye-Wood, Extract,		Bleaching powder		21.47		
15	and Chemical Company		Steam hose, etc		50.98		
15	Metropolitan Rubber Com-	New York	Exchange rental and tolls		31.75		
15	pany	Jersey City	Cylinder, etc.		27.38		
15	The New York and New Jer-	New York	Bleaching powder		18.44		
15	sey Telephone Company	do	Lime		20.88		
15	Gleason and Bailey Manufac-	do	Scrapers, etc		112.50		
15	turing Company	Jersey City	Expenses, October		12.80		
15	Edward Hill's Son & Co	do	15 animals		77.28		
15	Mason, Chapin & Co	Hudson County	7 animals		200.00		354.00
15	Jas. P. Hall	do	do				162.00
15	J. A. Lawson	Essex County	3 animals		60.00		
15	J. W. Hawk	do	Stationary		12.86		
18	Joseph Uobbing	New York	Exchange rental and tolls		11.40		
19	do	Jersey City	2 animals				26.00
25	Samuel Sessing	Camden County	Total for month	3,111.52	1,135.76	260.00	583.00
25	A. S. Barnes & Co.	Hudson County	17 animals				424.00
29	The New York and New Jer-	do	1 animal				20.00
29	sey Telephone Company	do	Expenses, October 24 and 26		1.75		10.00
30	Wm. C. Turpen	do	Expenses, December 3 to 10		50.66		
3	Barbara Sturm	Disinfectors	Salaries, November	290.00	82.00		
3	Abe Citron	do	Salary and expenses, November	114.20	51.50		
8	James Condon	do	do	114.20	49.80		
11	D. E. Salmon	do	do	97.80	44.65		
12	R. S. Forbes	do	do	81.60	52.26		
13	Mo. Conklin <i>et al.</i>	do	do	114.20	9.95		
14	W. W. Curry	do	do	81.60	35.75		
14	Werner Runge	do	do	81.60	31.93		
14	H. W. Rowland	do	do	81.60	32.20		
14	R. R. Letts	do	do	81.60	30.90		
14	Ira C. Kilburn	do	do	81.60	28.45		
14	Julius Huelken	do	do	81.60	24.55		
14	Joseph Locke	do	do	81.60	10.65		
14	John J. Smith	do	do	81.60	5.45		
14	J. H. Thelan	do	do	81.60	5.45		
14	Fred'k Blum	do	do	81.60			
14	B. S. Watson	do	do	81.60			
14	Simon Kelly	do	do	81.60			
14	Melvin Doremus	do	do	81.60			
14	Geo. C. Tofey	do	do	81.60			
14	David R. Hohart	do	do	81.60			
14	Ward L. Ferguson	do	do	81.60			
14	F. H. Spengeman	Jersey City	Salary for November		50.00		
14	Jas. P. Hall	do	Office rent		31.25		
14		do	Lime				

Expended from the appropriation for 1889-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889,								
Dec. 14	Mason, Chapin & Co.	New York.	Bleaching powder			\$20.84		
14	J. A. Lawson	Jersey City.	Hog rings, etc.			12.40		
14	John Bingham	New York	Stationery			8.15		
14	W. A. Willard	Clerk	Salary and expenses, November	\$114.20	\$6.35			
16	Thos. Crozer	Assistant inspector.	do	81.60	55.41	.11		
16	James Cassey	do	do	81.60	22.10			
16	James McGirr	do	Salary and expenses, November 1 to 15.	40.76	9.85			
16	H. Ostrander	do	do	40.76	8.72			
16	C. D. Noonan	Clerk	Salary for November	68.40				
16	George Fick	Jersey City.	Rent, storeroom			6.00		
16	Joseph Corbett	Janitor	Services	5.00				
17	J. W. Hawk	do	Salary and expenses, November	163.00	81.92	6.59	\$45.00	
17	S. Moos	Hudson County	3 animals					\$120.00
17	do	do	6 animals					
19	W. B. E. Miller	do	Salary and expenses, November					
20	W. H. Cooper	do	do	130.40	94.81			
20	George Fick	Jersey City	Salary and expenses, November	114.20	80.53	.57		
24	Charles Layton	Somerset County	Rent storeroom			1.00		
24	C. & M. Fleischmann	do	1 animal					20.00
24	do	do	11 animals				375.00	
24	do	do	18 animals					852.00
24	Ann Farrington	Essex County	19 animals					416.50
24	do	do	4 animals				100.00	
24	Gleason & Bailey Manufac-	do						
30	turing Company	New York	Packings, etc			2.50		
31	De Witt Clinton Woolsey	Somerset County	1 animal					15.00
			Total for month	2,582.12	907.61	139.41	520.00	1,877.50
1890,								
Jan. 4	Abe Citron	Bergen County	33 animals					822.00
4	do	do	2 animals				60.00	
4	W. H. Wray	do	Expenses, October		2.25			
7	J. W. Hawk	do	Salary and expenses, December	168.50	64.93	1.25		
14	Wm. B. E. Miller	do	do	134.80	45.00			
14	H. W. Rowland	do	do	117.90	56.50			
14	W. H. Cooper	do	do	117.90	55.63			
14	Werner Runge	do	do	117.90	48.60			
14	W. W. Curry	do	do	117.90	45.00			
14	R. R. Lettis	do	do	101.10	48.70			
14	Julius Huelson	do	do	117.90	9.35			

14	W. A. Willard	Clerk	do	117.90	6.75	117.90	1,329.75
14	B. S. Watson	Assistant inspector	do	84.20	37.75	84.20	113.00
14	Joseph Locke	do	do	84.20	35.65	84.20	915.50
14	Fred K. Bluen	do	do	84.20	35.15	84.20	182.50
14	J. H. Phelan	do	do	84.20	32.05	84.20	
14	Ira C. Kilburn	do	do	84.20	31.87	84.20	
14	John J. Smith	do	Salary and expenses, December, 30 days	81.62	32.20	81.62	
14	Thos. Crozer	do	Salary and expenses, December	84.20	29.05	84.20	
14	D. F. Shea	do	do	84.20	28.65	84.20	
14	James Cassey	do	do	84.20	25.70	84.20	
14	Simon Kelly	do	do	84.20	23.55	84.20	
14	Melvin Doremus	do	do	84.20	11.85	84.20	
14	D. L. Holart	do	do	84.20	5.25	84.20	
14	Geo. C. Toffey	do	Salary for December	84.20		84.20	
14	Ward L. Ferguson	Clerk	do	70.80		70.80	
14	C. D. Noonan	do	Office rent	50.00		50.00	
14	F. H. Spengeman	Jersey City	Bleaching powder	19.76		19.76	
14	J. L. & D. S. Riker	New York	do				
14	The New York and New Jersey Telephone Company	Jersey City	Exchange rentals and tolls				
14	Geo. Fick	do	Rent storeroom		11.55		
14	Newark Daily Advertiser	do	Blanks		6.00		
14	Joseph Corbert	Janitor	Services	5.00	5.50		
14	The Newark Lime and Cement Manufacturing Company	do	Lime				
14	J. E. Cronham	Jersey City	Sign		4.48		
16	Mo. Conklin <i>et al.</i>	Disinfectors	Salaries, December	370.20	2.10		
16	H. W. Brickwell	Hudson County	23 animals				492.75
16	do	do	4 animals				
16	Crist. Altelix	do	1 animal			110.00	15.00
17	R. H. Moore	Assistant inspector	Salary and expenses, December	84.20	27.25		
25	W. S. Danielson	Hudson County	1 animal			20.00	
25	The United Gas Improvement Company	Jersey City	Charges		1.41		
Feb. 1	Wm. J. Danielson	Hudson County	Total for month	2,818.12	743.43	190.00	1,329.75
5	H. Feinberg	Bergen County	5 animals				
5	do	do	54 animals				
12	Mo. Conklin <i>et al.</i>	do	6 animals	552.60			
13	W. H. Cooper	Disinfectors	Salaries, January	120.60			
13	W. H. Rowland	do	Salary and expenses, January	120.60	57.82		
13	Werner Lange	do	do	120.60	57.25		
13	W. V. Curry	do	do	120.60	49.50		
13	R. E. Letts	do	do	103.30	45.00		
13	Jahus Nielsen	do	do	120.60	48.35		
13	W. A. Willard	Clerk	do	120.60	9.85		
13	Ira C. Kilburn	Assistant inspector	do	86.10	8.75		
13	B. S. Watson	do	do	86.10	40.78		
13	Joseph Locke	do	do	86.10	38.40		
13	John J. Smith	do	do	86.10	35.55		
13	do	do	do	86.10	35.35		

Expended from the appropriation for 1889-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Feb. 13	Fred'k Bluem	Assistant inspector	Salary and expenses, January	\$86.10	\$35.35			
13	Daniel F. Shea	do	do	86.10	35.25			
13	R. H. Moore	do	do	86.10	33.20			
13	J. H. Phelan	do	do	86.10	32.20			
13	Thos. Crozier	do	do	86.10	29.20			
13	James Cassey	do	do	86.10	25.05			
13	Melvin Doremus	do	do	86.10	13.25			
13	Geo. C. Toffey	do	do	86.10	5.45			
13	D. R. Hobart	do	do	86.10	5.45			
13	Floy McEwen	Clerk	Salary for January	86.10				
13	W. L. Ferguson	do	do	86.10				
13	C. D. Noonan	do	do	72.30				
13	George Fick	Jersey City	Rent, store room			\$6.00		
13	Joseph Corbett	Janitor	Services	5.00				
15	W. B. E. Miller	do	Salary and expenses, January	137.80	45.00			
15	Simon Kelly	Assistant inspector	do	86.10	23.60			
15	F. H. Spengeman	Jersey City	Office rent			50.00		
15	The Newark Lime and Cement Manufacturing Company							
15	John Bingham	New York	Line			38.32		
15	The New York and New Jersey Telephone Company	Jersey City	Stationery			31.55		
21	J. W. Hawk	New York	Exchange rental and tolls			12.65		
25	Baumann Bros.	Jersey City	Salary and expenses, January	172.20	97.12	1.75		
28	Geo. C. Doyle	do	Office furniture			82.00		
			Carpentry			19.35		
			Total for month	3,144.40	806.72	241.62	\$182.50	\$1,023.50
Mar. 5	Mary Hannan	Hudson County	5 animals				140.00	
5	do	do	1 animal				20.00	
5	E. Meyer	do	do				15.00	
12	W. B. E. Miller	do	Salary and expenses, February	134.40	45.00			
12	Werner Runge	do	do	108.80	52.50			
12	W. H. Cooper	do	Salary and expenses, February	108.80	45.00			
12	W. W. Curry	do	do	108.80	45.00			
12	Julius Nielsen	do	do	108.80	9.55			
12	W. A. Willard	Clerk	do	108.80	7.95			
12	Frederick Blum	Assistant inspector	do	77.80	34.00			
13	Ira C. Kilburn	do	do	77.80	33.85			

12	Joseph Locke.....	do	do	77.80	32.35		
12	John J. Smith.....	do	do	77.80	31.95		
12	Daniel F. Shea.....	do	do	77.80	31.80		
12	J. H. Phelan.....	do	do	77.80	31.45		
12	Thos. Crozer.....	do	do	77.80	29.40		
12	B. S. Watson.....	do	do	77.80	24.85		
12	Simon Kelly.....	do	do	77.80	24.05		
12	James Cassey.....	do	do	77.80	21.85		
12	Melvin Doremus.....	do	do	77.80	12.25		
12	D. R. Hobart.....	do	do	77.80	5.05		
12	Geo. C. Toffey.....	do	do	77.80	5.05		
12	Floy McEwen.....	Clerk	Salary for February	77.80			
12	C. D. Noonan.....	do	do	65.40			
13	P. Mally.....	Hudson County	1 animal				25.00
14	J. W. Hawk.....	do	Salary and expenses, February	155.00	74.40	1.00	
14	H. W. Rowland.....	do	do	108.80	61.26		
14	W. L. Ferguson.....	Assistant inspector	Salary for February	77.80			
14	Mo. Conklin <i>et al</i>	Disinfectors	Salaries, February	229.30			
14	F. H. Spengeman.....	Jersey City	Office rent		50.03		
14	Geo. Fick.....	do	Rent storeroom		6.00		
14	Joseph Corbett.....	Janitor	Services	5.00			
18	R. H. Moore.....	Assistant inspector	Salary and expenses, February	77.80	33.25		
18	S. Moos.....	do	1 animal				20.00
19	R. K. Lettis.....	Hudson County	Salary and expenses, February	33.40	47.40		
21	The Newark Lime and Cement Manufacturing Company.....	Lime Stationery				13.60	
28	John Bingham.....	New York				5.40	
Total for month.....				2,570.70	739.81	76.00	186.00
Apr. 7	J. W. Hawk.....	do	Salary and expenses, March	172.20	63.40		
7	W. B. E. Miller.....	do	do	137.80	45.00		
7	H. W. Rowland.....	do	do	120.60	56.25		
7	Werner Runge.....	do	do	120.60	53.35		
7	W. H. Cooper.....	do	do	120.60	45.00		
7	R. K. Lettis.....	do	do	103.30	48.75		
7	Julius Huelssen.....	do	do	120.60	10.95		
7	W. A. Willard.....	do	do	120.60	8.50		
7	L. C. Kilburn.....	do	do	86.10	41.15		
7	Joseph Locke.....	Assistant inspector	do	86.10	35.65		
7	Frederick Bluem.....	do	do	86.10	35.20		
7	J. H. Phelan.....	do	do	86.10	34.90		
7	R. H. Moore.....	do	do	86.10	34.30		
7	B. S. Watson.....	do	do	86.10	30.55		
7	D. F. Shea.....	do	do	86.10	30.10		
7	Thos. Crozer.....	do	do	86.10	29.50		
7	Simon Kelly.....	do	do	86.10	23.60		
7	Melvin Doremus.....	do	do	86.10	13.25		
7	James Cassey.....	do	do	86.10	5.45		
7	Geo. C. Toffey.....	do	do	86.10	5.45		
7	D. R. Hobart.....	do	do	86.10	5.45		
7	Floy McEwen.....	Clerk	Salary for March	86.10			

Expended from the appropriation for 1889-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Apr. 7	W. L. Ferguson	Assistant inspector.	Salary for March.	\$86.10				
8	C. D. Noonan	do	do	72.30				
8	Mo. Conklin <i>et al.</i>	Disinfectors	Salaries, March	141.60				
8	Geo. Fick	Jersey City	Rent store-room			\$5.00		
12	W. W. Curry		Salary and expenses, March	120.60	\$50.00			
14	Joseph Corbett	Janitor	Services	5.00				
14	F. H. Spengeman	Jersey City	Office rent			50.00		
14	The New York and New Jersey Telephone Company	do	Exchange rental, and tolls			10.70		
14	Henry Wentjes	do	do			11.55		
21	Henry Wentjes	Bergen County	2 animals				\$40.00	\$227.00
21	do	do	10 animals					30.00
21	Thos. C. O'Callaghan	Morris County	2 animals					10.00
21	Anton Zubrod	Hudson County	1 animal					
			Total for month	\$3,741.90	706.35	78.25	40.00	267.00
May								
9	W. B. E. Miller		Salary and expenses, April	131.90	45.00			
9	I. C. Kilburn	Assistant inspector.	do	82.40	34.30			
9	Simon Kelly	do	do	82.40	23.65			
9	Malvin Doremus	do	do	82.40	13.25			
9	James Cassey	do	do	82.40	5.45			
9	Geo. C. Toffey	do	do	82.40	5.45			
9	Dan'l F. Shea	do	do	82.40	5.45			
9	W. L. Ferguson	Clerk	Salary for April	82.40				
9	Floy McEwen	do	do	82.40				
9	C. D. Noonan	do	do	69.20				
9	Mo. Conklin <i>et al.</i>	Disinfectors	Salaries, April	218.65				
10	J. W. Hawk	do	Salary and expenses, April	164.80	85.98	1.00		
10	H. W. Rowland	do	do	115.40	57.15			
10	Werner Runge	do	do	115.40	56.15			
10	W. H. Cooper	do	do	115.40	53.45			
10	W. W. Curry	do	do	115.40	48.00			
10	R. E. Letts	do	do	98.90	48.45			
10	W. A. Willard	Clerk	do	115.40	11.45			
10	Julius Huelsen	do	do	115.40	10.95			
10	Joseph Locke	Assistant inspector	do	82.40	35.30			
10	Fredk. Blum	do	do	82.40	35.15			
10	R. H. Moore	do	do	82.40	34.25			
10	B. S. Watson	do	do	82.40	32.85			

10	John Briggs.....	do	do	23.65	82.40	21.84	9.75	22.65
10	Thos. Crozer.....	do	do	31.95	82.40		6.00	
10	D. R. Hobart.....	do	do	5.45	82.40			
13	J. H. Phelan.....	do	do	34.75	82.40			
14	James Lee & Co.....	New York	Bleaching powder					
14	The New York and New Jersey Telephone Company.....	Jersey City	Exchange rental, and tolls					
14	Geo. Fick.....	Jersey City	Rent, storeroom					
14	Joseph Corbent.....	Janitor	Services	5.00				
14	Metropolitan Rubber Company.....	New York	Washers					
17	F. H. Spengeman.....	Jersey City	Office rent					
19	H. Baumgarten.....	Washington	Tags	50.00				
31	D. E. Salmon.....	D. E. Salmon	Expenses, March 3	85.00				
31	Gleason and Bailey Manufacturing Company.....	New York	Expenses, March 3	1.75				
			Air chamber	4.00				
			Total for month	741.21	2,699.25	178.25		15.00
June 3	Wm. H. Butler.....	Bergen County	1 animal					
12	W. A. Willard.....	Clerk	Salary and expenses, May	8.85	119.20			
12	Fred'k. Bieum.....	Assistant inspector	do	34.85	85.20			
12	Mo. Conklin <i>et al.</i>	Disinfectors	Salaries, May	143.70	143.70			
12	Floy McEwen.....	Clerk	Salary for May	85.20	85.20			
12	Ward L. Ferguson.....	do	do	85.20	85.20			
12	C. D. Noonan.....	do	do	71.60	71.60			
13	I. C. Kilburn.....	Assistant inspector	Salary and expenses, May	46.79	85.20			
13	Joseph Locke.....	do	do	35.55	85.20			
13	J. H. Phelan.....	do	do	31.90	85.20			
13	R. S. Watson.....	do	do	30.55	85.20			
13	Thos. Crozer.....	do	do	29.20	85.20			
13	John Briggs.....	do	do	23.90	85.20			
13	Simon Kelly.....	do	do	23.60	85.20			
13	Melvin Doremus.....	do	do	13.25	85.20			
13	D. F. Shea.....	do	do	5.45	85.20			
13	D. R. Hobart.....	do	do	5.45	85.20			
13	Geo. C. Toffey.....	do	do	5.45	85.20			
13	James Cassey.....	do	do	5.45	85.20			
14	J. W. Hawk.....	do	do	75.54	170.40	.50		
14	H. W. Rowland.....	Jersey City	do	68.13	119.20			
14	W. B. E. Miller.....	do	do	45.00	136.20			
14	W. W. Curry.....	do	do	58.25	119.20			
14	Werner Runge.....	do	do	53.35	119.20			
14	W. H. Cooper.....	do	do	45.00	119.20			
14	R. K. Letts.....	do	do	48.70	102.20			
14	Julius Huelsen.....	do	do	10.95	119.20			
14	R. H. Moore.....	do	do	37.08	85.20			
14	Geo. Fick.....	Assistant inspector	Rent, store room			6.00		
14	Joseph Corbent.....	Janitor	Services	5.00				
16	F. H. Spengeman.....	Jersey City	Office rent	50.00				
16	Wing & Evans.....	New York	Bleaching powder	14.18				

Expended from the appropriation for 1889-'90, by States—Continued.

NEW JERSEY—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890, June 16	The New York and New Jersey Telephone Company							
18	Chas. Hofstetter	Jersey City	Exchange rental, and tolls			\$11. 10	\$58. 00	
18	do	Hudson County	2 animals					\$273. 00
	do	do	11 animals					
			Total for month	\$2, 707. 50	\$741. 94	81. 78	58. 00	288. 00
July 11	W. A. Willard	Clerk	Salary and expenses, June	115. 40	8. 75			
11	Floy McEwen	do	Salary for June	82. 40				
11	W. L. Ferguson	do	do	82. 40				
11	C. D. Noonan	do	do	69. 20				
11	Mo. Conklin, et al.	Disinfectors	Salaries, June	525. 15				
11	J. W. Hawk	do	Salary and expenses, June	164. 80	91. 84	6. 94		
12	do	do	Expenses of disinfectors, June		190. 86			
12	H. W. Rowland	do	Salary and expenses, June	115. 40	67. 02			
12	Werner Runge	do	do	52. 75				
12	W. H. Cooper	do	do	115. 40	45. 00			
12	W. W. Curry	do	do	115. 40	45. 00			
12	R. R. Lettis	do	do	98. 90	47. 75			
12	Julius Huelsen	do	do	115. 40	10. 75			
12	Frederick Bluen	Assistant inspector	do	82. 40	34. 35			
12	James Cassey	do	do	82. 40	5. 25			
14	I. C. Kilburn	do	do	82. 40	45. 02			
14	R. H. Moore	do	do	82. 40	37. 02			
14	Joseph Locke	do	do	82. 40	35. 25			
14	J. H. Phelan	do	do	82. 40	34. 35			
14	Thomas Crozer	do	do	82. 40	34. 35			
14	B. S. Watson	do	do	82. 40	30. 25			
14	Simon Kelly	do	do	82. 40	23. 50			
14	John Briggs	do	do	82. 40	23. 50			
14	D. F. Shea	do	do	82. 40	16. 40			
14	Melvin Doremus	do	do	82. 40	16. 40			
14	D. R. Hobart	do	do	82. 40	12. 75			
14	Geo. C. Tofey	do	do	82. 40	5. 25			
14	F. H. Spengeman	do	do	82. 40	5. 25			
14	Geo. Fick	do	do	82. 40	5. 25			
14	Joseph Corbett	Jersey City	Office rent			50. 00		
14	do	do	Store-room rent			6. 00		
14	W. B. E. Miller	Janitor	Services, June	5. 00				
19	The New York and New Jersey Telephone Company		Salary and expenses, June	131. 90	45. 00			
19	do	Jersey City	Exchange rental and tolls			11. 40		

Aug. 14	John Bingham. The Newark Lime and Cement Manufacturing Company	New York	Stationery	7.55		
			Lime	42.00		
			Total for month	947.21		
		Jersey City	Exchange rental and tolls			
			Grand total	10,323.16	1,848.50	10,947.75
	The New York and New Jersey Telephone Company					

MARYLAND.

1889. July 12	Carroll Ensor	Assistant inspector	Salary and penses, July 1 to 8	\$21.74	\$1.20		
19	Charles C. Fulton	"Baltimore American"	Advertising		\$8.66		
25	Thomas Crutchley	Anne Arundel County	1 animal				\$12.00
30	C. Spitznaugel	Baltimore County	17 animals			\$15.00	191.00
30	do	do	1 animal				
30	Isaac Hendler	do	13 animals				281.00
30	A. Rosenthal & Son	do	1 animal				17.00
30	Thomas B. Gatch	do	do				15.00
30	Wm. M. Ebaugh	do	do				13.00
30	Fred. Young	do	do				10.00
			Total for month	21.74	1.20	15.00	539.00
Aug. 3	A. W. Clement	Assistant inspector	Salary and expenses, July	168.50	50.00		
3	W. H. Wray	do	Salary for July	200.00			
3	Thos. A. Hays	Assistant inspector	Salary and expenses, July	84.20	31.65		
3	Albert Hassall	do	do	134.80	76.80		
3	James F. Ryder	do	do	134.80	50.00		
3	C. K. Dyer	do	do	134.80	50.00		
3	D. R. Hoffman	do	do	101.10	55.50		
3	E. C. Schroeder	do	do	101.10	53.20		
3	J. B. Trull	Clerk	Salary for July	117.90			
3	J. B. Bausman	Assistant inspector	Salary and expenses, July	84.20	5.30		
3	Isaac L. Ball	Clerk	Salary for July	84.20			
3	Cyrus M. Gardner	Assistant inspector	do	84.20			
3	R. C. Waters	do	do	84.20			
3	V. F. Collier	do	do	84.20			
3	James Boyd	do	do	84.20			
3	Fred. Paville	Clerk	do	84.20			
3	J. F. Shipley	do	do	65.22			
3	Edward N. Kratz	Assistant inspector	Salary for July 8 to 31				
3	George Schmeiser	Baltimore County	1 animal				15.00
3	Wm. K. Boyle & Son	Baltimore	Blanks		35.00		
5	W. H. Snader	Assistant inspector	Salary and expenses, July	84.20	20.02		
5	G. V. Patterson	do	do	117.90	86.20		

Expended from the appropriation for 1889-'90 by States—Continued.
MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889, Aug. 5	A. D. Melvin.....	.....	Salary and expenses, July.....	\$168.50	\$52.50	.....	.....	.....
5	George C. Faville.....	.....	do.....	270.00	64.35	.....	.....	.....
5	Frederick Gross.....	Assistant inspector.....	Salary for July.....	84.20	.....	.....	.....	.....
6	Wm. S. Brooke.....	Appraiser.....	Salary and expenses, July 17.....	5.00	3.55	.....	.....	.....
6	T. L. Armstrong.....	.....	Salary and expenses, July 1 to and 24 to 31.....	60.87	57.50	.....	.....	.....
6	T. D. Holland <i>et al.</i>	Disinfectors.....	Salaries, July.....	114.20	.....	.....	.....	.....
6	Frank Guat.....	Baltimore County.....	1 animal.....	.....	.....	.....	.....	\$13.00
6	Alex. Yeatley & Son.....	Baltimore.....	Office rent.....	.....	.....	\$12.50	.....	.....
6	Emily Lucas.....	Janitor.....	Services.....	4.50	.....	.....	.....	.....
9	H. Schladerberg.....	Appraiser.....	Salary and expenses, July 17.....	5.03	4.00	.....	.....	.....
9	P. F. Flannery.....	Baltimore.....	Rent and storeroom.....	.....	.....	4.00	.....	.....
12	D. N. McCauley.....	Assistant inspector.....	Salary and expenses, July.....	84.20	17.80	.....	.....	.....
12	Wm. J. O'Brien.....	do.....	Stationery.....	.....	.....	24.70	.....	.....
12	John J. Thomsen.....	do.....	Chloride of lime.....	.....	.....	9.01	.....	.....
12	C. J. Stewart & Sons.....	do.....	Hog rings, etc.....	.....	.....	7.50	.....	7.00
14	John I. Hoffman.....	Baltimore County.....	1 animal.....	.....	.....	.....	.....	.....
23	W. H. Wray.....	.....	Salary, Aug. 1 to 8.....	56.00	.....	.....	.....	10.00
26	M. A. Smith.....	St. Mary's County.....	1 animal.....	.....	.....	.....	.....	.....
			Total for month.....	2,970.59	658.37	92.71	.....	45.00
Sept. 4	A. W. Clement.....	.....	Salary and expenses, August.....	168.50	62.25	.....	.....	.....
4	A. D. Melvin.....	do.....	do.....	168.50	53.00	.....	.....	.....
4	T. L. Armstrong.....	do.....	do.....	134.80	51.00	.....	.....	.....
4	Albert Hassall.....	do.....	do.....	134.80	52.50	.....	.....	.....
4	Jas. F. Ryder.....	do.....	do.....	134.80	57.20	.....	.....	.....
4	E. C. Schroeder.....	do.....	do.....	101.10	53.20	.....	.....	.....
4	Thos. A. Hays.....	Assistant inspector.....	do.....	84.20	31.60	.....	.....	.....
4	W. H. Snader.....	do.....	do.....	84.20	19.57	.....	.....	.....
4	D. N. McCauley.....	do.....	do.....	84.20	9.00	.....	.....	.....
4	James Boyd.....	do.....	do.....	84.20	3.00	.....	.....	.....
4	F. W. Patterson.....	do.....	do.....	117.90	98.86	.....	.....	.....
4	David Holland.....	Disinfecter.....	Salary for August.....	84.20	.....	.....	.....	.....
4	J. B. Bausman.....	Assistant inspector.....	do.....	84.20	.....	.....	.....	.....
4	V. F. Collier.....	do.....	do.....	84.20	.....	.....	.....	.....
4	Edward N. Kratz.....	do.....	do.....	84.20	.....	.....	.....	.....
4	Fred'k Gross.....	do.....	do.....	84.20	.....	.....	.....	.....
4	J. F. Shipley.....	Clerk.....	do.....	84.20	.....	.....	.....	.....
4	Fred. Faville.....	do.....	do.....	84.20	.....	.....	.....	.....
4	Isaac L. Ball.....	do.....	do.....	84.20	.....	.....	.....	.....
4	E. C. Waters.....	Assistant inspector.....	do.....	84.20	.....	.....	.....	.....

4	C. M. Gardner.	do	do	84.20					
4	J. B. Trull	Clerk	do	117.90					
4	D. R. Hoffman	Baltimore	Salary and expenses, August		50.00				
4	Alex. Yearley & Son.	do	Office rent	101.10					
4	C. J. Stewart & Sons.	do	Hog rings			12.50			
4	Emily Lucas.	do	Services	4.50		6.00			
4	P. F. Flannery	Baltimore	Rent storeroom.			4.00			
4	Albert T. Myer	Baltimore County	1 animal						20.00
4	Margaret E. Smith.	do	do						16.00
6	P. F. Flannery	Baltimore	Lime			6.00			
6	C. K. Dyer	do	Salary and expenses, August	134.80	50.00				
11	Geo. C. Faville	do	do	270.00	74.85				
11	Wm. H. Wray	Baltimore	Salary for August, 16 days.	128.00					
11	Wm. J. O'Brien	Washington	Stationery			3.70			
11	H. Baumgarten	do	Tags			13.60			
16	Robert S. Forbes	Baltimore	Expenses, September		23.18				
20	Geo. Schmeiser	Baltimore County	1 animal						5.00
20	F. P. Van Hekle, Jr.	New Castle County, Del.	do						20.00
23	W. H. Wray	Washington	Salary for September, 12 days.	96.00					
24	Herman Baumgarten.	Baltimore County	Tags			51.00			188.01
26	George Dorn	do	7 animals						5.00
26	do.	do	2 animals						
26	Henry Yienger	do	1 animal						
			Total for month	2,991.50	639.21	96.80		64.19	254.01
			Salary and expenses, September.	81.60	18.02				
5	W. H. Snader	Assistant inspector.	do	81.60	5.10				
5	D. N. McCauley	do	do	81.60	4.50				
5	James Boyd.	do	do	81.60	4.50				
5	Wm. S. Brooke.	Appraiser	Salary and expenses, September 18	5.00	4.20				
5	J. B. Trull	Clerk	Salary for September.	114.20					
5	C. M. Gardner.	Assistant inspector.	do	81.60					
5	V. F. Collier	do	do	81.60					
5	J. B. Bauman	do	do	81.60					
5	Isaac L. Ball	Clerk	do	81.60					
5	Fred. Faville	do	do	81.60					
5	R. C. Waters	Assistant inspector	do	81.60					
5	J. F. Shipley	Clerk	do	81.60					
5	E. N. Kratz	Assistant inspector.	do	81.60					
5	E. C. Schroeder	do	Salary and expenses, September	97.80	50.00				
5	D. R. Hoffmann	do	do	97.80	50.00				
5	Thos. A. Hays	Assistant inspector.	do	81.60	30.00				
5	David Holland	Disinfecter	Salary for September	81.60					
5	Emily Lucas	Janitor	Services	4.50					
5	Chesapeake and Potomac Tel. ephone Company.	Baltimore	Exchange rental			25.00			
5	Alex. Yearley & Son.	do	Office rent	250.00					
9	Geo. C. Faville	Baltimore	Salary and expenses, September.		55.78				
9	T. L. Armstrong	do	Salary and expenses, Sept. 1 to 25 and 29 to 30	117.39	59.00				
9	F. W. Patterson	do	Salary and expenses, September	114.20	82.75				
9	James F. Ryder	do	do	130.40	52.18				

Oct.

Expended from the appropriation for 1889-'90, by States—Continued.

MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
Oct.	Albert Hassall.		Salary and expenses, September	\$130.40	\$52.40			
9	C. K. Dyer.		do.	130.40	50.00			
9	W. H. Wray.		Salary for September 30	8.00				
9	Frederick Gross.	Assistant inspector.		81.60				
11	A. D. Melvin.		Salary and expenses, September	163.00	66.43			
11	H. Schlumberger.	Appraiser	Salary and expenses, September 18.	5.00	4.00			
11	Geo. C. Faville.		Expenses, September			\$7.56		
14	C. J. Stewart & Sons.	Baltimore.	Hog rings			6.75		
16	A. W. Clement.		Salary and expenses, September	163.00	78.00			
18	P. F. Flannery.	Baltimore	Rent storeroom			4.00		\$15.00
22	Leopold Pfederkorn.	Baltimore County	1 animal.					
			Total for month	2,673.49	662.36	55.81		15.00
Nov	C. K. Dyer.		Salary and expenses, October	134.80	50.00			
4	Geo. C. Faville.		do	270.00	52.50			
4	Albert Hassall.		do	134.80	52.50			
4	E. C. Schroeder		do	101.10	32.50			
4	W. H. Snader	Assistant inspector	do	84.20	22.22			
4	D. N. McCauley	do	do	84.20	12.00			
4	J. B. Bausman	do	do	84.20	5.80			
4	James Boyd	do	do	84.20	4.50			
4	T. L. Armstrong	do	do	134.80	50.00			
4	Jas. F. Ryder	do	do	134.80	50.00			
4	D. R. Hoffman	do	do	101.16	50.00			
4	J. B. Trull	Clerk.	Salary for October	117.90				
4	I. L. Ball	do	do	84.20				
5	Edw. N. Krautz	Assistant inspector.	do	84.20				
5	R. C. Waters	do	do	84.20				
5	C. M. Gardner	do	do	84.20				
5	Frederick Gross	do	do	84.20				
5	Fred. Faville	Clerk	do	84.20				
5	J. F. Shipley	do	do	84.20				
5	V. F. Collier	do	do	84.20				
5	D. Holland	Assistant inspector	do	84.20				
5	Wm. K. Boyle & Son.	Disinfecter	Record book			17.50		
5	Alex. Yearley & Son.	Baltimore.	Office rent			12.50		
5	Emily Lucas	do	Services	4.50				15.00
8	Tobias Lutz	Janitor	1 animal					12.00
8	John L. Willhide	Baltimore County	do					
9	W. H. Wray	Frederick County	Salary for October, 22 days	176.00				

9	A. W. Clement.....	Salary and expenses, October	168.50	50.00					
9	A. D. Melvin.....	do	168.50	50.00					
9	F. W. Patterson.....	do	117.90	83.52					
9	Thos. A. Hays.....	do	84.20	32.35					
14	John J. Thomson.....	Assistant inspector.							
14	C. J. Stewart & Sons.....	Baltimore							
14	P. F. Fleunery.....	do							
15	do	do							
15	Geo. C. Paville.....	Chloride of lime					9.10		
15	do	Hog rings, etc					4.86		
15	do	Rent storeroom					4.00		
15	do	Lime					2.40		
15	do	Expenses, October	15.00				13.10		
16	Robert S. Forbes.....	do		2.95					
19	Wm. K. Boyle & Son.....	Record books					30.00		
20	J. E. Poland.....	1 animal							
		Total for month	2,958.50	620.84			93.46		
									41.00
5	Geo. C. Paville.....	Salary and expenses, November	260.00	62.15					
5	F. W. Patterson.....	do	114.20	94.23					
5	W. H. Wray.....	Salary for November 1 to 18 and 21 to 30	176.00						
5	Albert Hassall.....	Salary and expenses, November	130.40	52.40					
5	E. C. Schroeder.....	do	97.80	53.10					
5	W. H. Snader.....	do	81.60	13.20					
5	James Boyd.....	do	81.60	5.00					
5	A. D. Melvin.....	do	163.00	50.00					
5	A. W. Clement.....	do	163.00	50.00					
5	J. B. Trull.....	do	114.20						
5	Thos. A. Hays.....	Salary for November	81.60	30.00					
5	D. Holland.....	Salary and expenses, November	81.60						
5	Isaac L. Ball.....	Salary for November	81.60						
5	Fred. Paville.....	do	81.60						
5	J. F. Shipley.....	do	81.60						
5	V. F. Collier.....	do	81.60						
5	J. B. Bausman.....	do	81.60						
5	C. M. Gardner.....	do	81.60						
5	Fredk. Gross.....	do	81.60						
5	Edw. N. Kratz.....	do	81.60						
5	E. C. Waters.....	do	81.60						
6	C. K. Dyer.....	do	81.60						
7	T. L. Armstrong.....	Salary and expenses, November	130.40	50.00					
9	D. N. McCanley.....	do	130.40	71.25			1.33		
11	D. E. Salmon.....	do	81.60	8.90					
13	James E. Ryder.....	Expenses, November 9		4.45					
13	Wm. J. O'Brien.....	Salary and expenses, November	130.40	50.00					
13	Alex. Yearley & Son.....	Stationery					22.51		
13	Emily Lucas.....	Office rent					12.50		
13	C. J. Stewart & Sons.....	Services	4.50						
13	P. F. Fleunery.....	Hog rings, etc					4.00		
21	D. R. Hoffman.....	Rent, storeroom							
24	H. Gorries.....	Salary and expenses, November	97.80	51.50					
31	John N. Foss.....	1 animal							
		do							
		Total for month	2,854.50	646.18			44.84		
									36.00
		Total for month	\$3,713.80						

Dec.

Expended from the appropriation for 1889-'90 by states—Continued.

MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
Mar.								
4	V. F. Collier	Assistant inspector	Salary for February	\$77.80				
4	Wm. K. Boyle & Son	Baltimore	Record books	240.00		\$25.00		
5	Geo. C. Faville		Salary and expenses, February	108.80	\$61.85			
5	F. W. Patterson		do	124.40	50.00			
5	C. K. Dyer		do	77.80	32.10			
5	Thos. A. Hays	Assistant inspector	do	77.80	7.00			
5	James Boyd	do	Office rent			12.50		
5	Alex. Yearley & Son	Baltimore	Services	4.50				
5	Emily Lucas	Janitor	Report books			17.50		
6	Wm. K. Boyle & Son	Baltimore	Rept storeroom	140.00	50.00	4.00		
6	P. F. Flannery	do	Salary and expenses, February	176.00				
12	T. L. Armstrong		Salary for February, 22 days					
12	W. H. Wray	1 animal				\$20.00		
13	Frank Mueller	Baltimore County	Salary and expenses, February	124.40	50.40			
14	Albert Hassall	do						
14	Geo. Lyett	Baltimore	Stationery		4.00			
14	C. J. Stewart & Son	do	Hog rings, etc		7.75			
14	Geo. C. Faville	do	Expenses, February		5.00			
19	Charles H. Yox	Baltimore County	1 animal					\$15.00
25	John Schaaf	do	do					15.00
			Total for month	\$3,335.70	549.45	75.75	20.00	30.00
Apr.								
3	T. L. Armstrong		Salary and expenses March, 27 days	135.00	54.55			
3	A. D. Melvin		do	172.20	50.00			
3	J. B. Trull	Clerk	Salary for March	120.60				
3	R. C. Waters	Assistant inspector	Salary and expenses, March	86.10	30.00			
3	D. Holland	Disinfecter	Salary for March	86.10				
3	Fred'k Gross	do	do	86.10				
3	W. H. Snader	do	do	86.10				
3	C. M. Gardner	do	do	86.10				
3	C. H. Roberts	do	do	86.10				
3	E. N. Kratz	do	do	86.10				
3	Emily Lucas	Janitor	Services	4.50				
4	F. W. Patterson		Salary and expenses, March	120.60	75.60			
4	C. K. Dyer	do	do	137.80	50.00			
4	Geo. C. Faville	do	do	260.00	53.25			
4	A. W. Clement	do	do	172.20	50.00			
4	W. H. Wray	do	Salary for March	200.00				
4	Albert Hassall		Salary and expenses, March	137.80	52.30			

Expended from the appropriation for 1889-'90, by States—Continued.

MARYLAND—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1890.								
May 14	C. J. Stewart & Sons.	Baltimore.	Hog rings, etc.			\$3.00		
May 16	Geo. C. Faville.		Expenses, April.			4.10		
			Total for month.	\$1,635.80	\$479.67	47.00		
June 4	A. W. Clement.		Salary and expenses, May	170.40	55.00			
5	Geo. C. Faville.		do	270.00	55.75			
5	Jas. F. Ryder.		do	136.20	50.00			
5	W. H. Wray.		do	200.00				
5	Isaac L. Ball.	Clerk.	Salary for May	85.20				
5	Emily Lucas.	Janitor	do	4.50				
16	Geo. C. Faville.		Expenses for May		2.05			
16	Alex. Yearley & Son.	Baltimore	Office rent	48.00	12.50			
18	W. H. Wray.		Salary for June, 6 days					
18	Chas. C. Rice	Carroll County	1 animal					\$10.00
			Total for month.	914.30	160.75	14.55		10.00
July 3	Geo. C. Faville.		Salary and expenses, June	250.00	55.65			
3	A. W. Clement.		do	164.80	50.00			
3	Jas. F. Ryder.		do	131.90	50.00			
3	Isaac L. Ball.	Clerk.	Salary for June.	82.40				
3	Emily Lucas.	Janitor	Services for June.	4.50				
8	W. H. Wray.		Salary for June, 16 to 30	104.00				
8	Alex. Yearley & Son.	Baltimore.	Office rent		12.50			
11	Chesapeake and Potomac Telephone Company.	do	Exchange rental.		25.00			
			Total for month.	737.60	155.65	37.50		
			Grand total.	30,139.62	6,366.08	838.27	\$99.19	1,115.01

PENNSYLVANIA.

1889. Aug. 2 5	W. H. Rose George Carter	Assistant inspector.	Salary and expenses, July..... do.....	\$208.00 84.20	\$11.07 6.17	
			Total for month.....	292.20	17.24	
Sept. 6	George Carter	Assistant inspector	Salary and expenses, August.....	84.20	6.67	
Oct. 9 9	W. H. Rose George Carter	Assistant inspector.	Salary and expenses, September..... do.....	192.00 81.60	44.23 32.18	
			Total for month.....	273.60	76.41	
Nov. 14 14	W. H. Rose George Carter	Assistant inspector	Salary and expenses, October..... do.....	216.00 84.20	33.50 38.31	
			Total for month.....	300.20	71.81	
Dec. 10 10	W. H. Rose George Carter	Assistant inspector.	Salary and expenses, November..... do.....	200.00 81.60	28.13 20.95	
			Total for month.....	281.60	49.08	
1890. Jan. 4 4	W. H. Rose George Carter	Assistant inspector	Salary and expenses, December..... do.....	200.00 84.20	22.78 5.27	
			Total for month.....	284.20	28.05	
Feb. 4 4	W. H. Rose George Carter	Assistant inspector.	Salary and expenses, January..... do.....	200.00 86.10	9.80 5.52	
			Total for month.....	286.10	15.32	
Mar. 5 5 6	W. H. Rose George Carter Edwin S. Huff.	Assistant inspector. do.....	Salary and expenses, February..... do..... Salary for February.....	192.00 77.80 77.80	4.85 5.07	
			Total for month.....	347.60	9.92	
Apr. 5 5 8	George Carter W. H. Rose Edwin S. Huff	Assistant inspector. do..... Assistant inspector.	Salary and expenses, March..... do..... Salary for March.....	86.10 208.00 86.10	2.97 1.17	
			Total for month.....	380.20	4.14	
May 3 3 3	W. H. Rose George Carter Edwin S. Huff	Assistant inspector. do..... do.....	Salary and expenses, April..... do..... Salary for April..... Total for month.....	208.00 82.40 82.40 372.80	1.27 2.97	4.24

Expended from the appropriation for 1889-'90 by States—Continued

PENNSYLVANIA—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.	Affected cattle.	Exposed cattle.
1889.								
June 4	W. H. Rose		Salary and expenses, May	\$208.00	\$1.07			
4	George Carter	Assistant inspector	do	85.20	2.97			
4	Edwin S. Huff	do	Salary for May	85.20				
			Total for month	378.40	4.04			
July 3	W. H. Rose		Salary and expenses, June	200.00	1.07			
3	George Carter	Assistant inspector	Salary for June	82.40	2.87			
3	Edwin S. Huff	do	do	82.40				
			Total for month	364.80	3.94			
			Grand total	3,645.90	290.86			

Expended from the appropriation for 1889-'90—Continued.
SCIENTIFIC INVESTIGATIONS—GENERAL.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889.						
July 17	Prosch Manufacturing Company	For laboratory	Photographic sundries			\$15.50
24	Wilson-Hood-Cheyney Company	do	Lens			33.14
31	Cooper Curtice	do	Salary for July	\$134.80		
31	V. A. Moore	do	do	101.10		
31	W. S. D. Haines	do	do	84.20		
31	M. N. Barnard	do	do	60.60		
31	William Alexander	do	do	60.60		
31	M. H. Somerville	do	Salary for July 18 to 31	25.11		
31	William H. Rhees	Experimental station	Salary for July	60.60		
			Total for month	527.01		48.64
Aug 1	H. J. Ruppert	For experimental station	Rent for July			41.66
12	M. G. Copeland	For laboratory	Awning			8.00
28	P. H. Heiskell, Jr., & Co	For experimental station	Hog ringers			1.00
31	Cooper Curtice	Laboratory	Salary for August	134.80		
31	V. A. Moore	do	do	101.10		
31	W. S. D. Haines	do	do	101.10		
31	M. N. Barnard	do	do	60.60		
31	William Alexander	do	do	60.60		
31	M. H. Somerville	do	do	53.60		
31	William H. Rhees	Experimental station	do	60.60		
31	Charles A. Freedman	Laboratory	Carpenter, August (4 days)	12.00		
			Total for month	586.40		50.66
Sept 4	H. J. Ruppert	For experimental station	Rent for August			41.66
6	F. L. Kilborne	do	Cow			9.00
11	Walter F. Hewitt	do	Feed			59.90
14	F. L. Kilborne	Investigating Texas fever, North Carolina.	Expenses, September 7 to 13		\$43.78	118.17
18	H. P. Pillsbury	For experimental station	Hay			62.57
18	Francis Miller	do	Glass, etc.			12.65
18	M. W. Beveridge	do	Basins			3.33
18	Rider & Addison	do	Shipping tags			2.00
19	F. L. Kilborne	do	3 cows and hay			51.25
20	E. Jackson	do	Whip			2.00
26	George W. Knox	do	Transportation of animals from North Carolina			57.00
26	Holmes & Co	do	Rubber gloves			1.88
30	H. J. Ruppert	do	Rent for September			41.66
30	Cooper Curtice	Laboratory	Salary for September	130.40		

Expended from the appropriation for 1889-'90—Continued.
 SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889.						
Sept. 30	V. A. Moore	Laboratory	Salary for September	\$97.80		
30	W. S. D. Haines	do	do	97.80		
30	M. N. Barnard	do	do	58.80		
30	William Alexander	do	do	58.80		
30	William H. Rhoads	Experimental station	do	58.80		
30	M. H. Somerville	Laboratory	do	53.80		
30	Charles A. Freedman	do	Carpenter, September (10 days)	30.00		
			Total for month	586.20	\$43.78	\$163.07
Oct.						
4	The Scovill and Adams Company	For laboratory	Camera, holders, etc			76.76
5	Chesapeake and Potomac Telephone Company	For experiment station	Exchange rental			35.94
7	Wm. H. Rhoads	do	Salary for October 1 to 5	9.78		
9	Chas. R. Talbot	do	Glover hay			149.73
9	David Pfisterling	do	5 head cattle			85.00
9	T. T. Keane	do	4 head cattle			72.50
9	Frank E. Hopkins	do	Safety hooks			3.00
9	L. H. Hopkins	do	Locks, rope, etc.			46.33
14	E. and H. T. Anthony & Co	For laboratory	Photographic sundries			12.55
14	Wilnot Castle & Co.	do	Copper sterilizer			8.00
15	M. H. Somerville	do	Salary for October 1 to 14	25.11		
16	M. W. Beveridge	For experiment station	Pails, etc.			6.54
18	Church & Stephenson	For laboratory	Shelving			16.32
24	Brothead & Co.	do	Linen			2.00
25	E. Walters & Co.	do	Barrel of alcohol			25.06
25	J. W. Boteler & Son	For experiment station	Stand			7.50
25	Woodward & Lothrop	do	Toweling			5.40
25	E. Westermann & Co.	do	Books			24.10
31	Chas. A. Freedman	For laboratory	Carpenter, October, 14 days	42.00		
31	Cooper Cutrice	do	Salary for October	134.80		
31	V. A. Moore	do	do	101.10		
31	W. S. D. Haines	do	do	101.10		
31	M. N. Barnard	do	do	60.60		
31	Wm. Alexander	do	do	60.60		
31	Julienne Somerville	do	Salary for October 15 to 31	30.49		
31	Wm. H. Bradford	Experiment station	Salaries for October 5 to 31	52.83		
			Total for month	618.41		576.73
						\$1,195.14

Nov.	5	J. Edw. Chapman	For experiment station	Coal	18.50
	5	H. J. Ruppert	do	Rent for October	41.66
	9	Z. D. Gilman	For laboratory	Culture tubes, jars, etc.	104.09
	14	F. P. May & Co	For experiment station	Repairing vise	2.00
	14	Melville Lindsay	do	Wagon apron	2.50
	14	L. H. Hopkins	do	Hardware sundries	30.08
	14	F. L. Kilborne	do	Pigs, etc.	18.06
	18	Chas. R. Talbert	do	Clover hay	217.05
	19	V. V. Purcell	do	1 cow	20.00
	19	G. G. Gregg	do	1 heifer	20.00
	20	Church & Stephenson	do	Lumber	88.35
	23	Francis Miller	For laboratory	Plate glass	8.00
	23	Wm. H. Teape	do	Drawing materials	12.61
	30	Cooper Cutrice	do	Salary, November 1 to 14	60.87
	30	V. A. Moore	do	Salary, November 15 to 30	78.26
	30	W. S. D. Haines	do	Salary, November	97.80
	30	M. N. Barnard	do	do	97.80
	30	Wm. Alexander	do	do	58.80
	30	J. Somerville	do	do	58.80
	30	Wm. H. Bradford	Experiment station	do	53.80
			Total for month	\$1,147.83	582.90
Dec.	3	H. J. Ruppert	For experiment station	Rent for November	41.66
	4	Geo. W. Talbert	do	Carpenter, September 19 to November 24	16.00
	4	J. R. Suit	do	Stove, etc	10.10
	6	A. M. Farrington	do	Transportation charges	43.31
	12	Church & Stephenson	do	Lumber	236.76
	13	Chas. R. Talbert	do	Straw and hay	109.01
	13	Walter F. Hewett	do	Feed	80.54
	13	H. P. Pillsbury	do	Hay	52.13
	13	Z. D. Gilman	For laboratory	Thermometers, etc.	17.80
	13	L. H. Hopkins	For experiment station	Hardware	4.50
	16	Geo. N. Holland	do	Lime	32.57
	16	B. Westermann & Co.	For laboratory	Books	1.25
	17	E. Jackson	For experiment station	Feed bag	5.79
	19	J. Edw. Chapman	do	Coal	8.00
	21	E. Jackson	do	Straps, etc	15.00
	21	Geo. W. Talbert	do	Carpenter, 5 days	24.00
	24	Gustav Theilkohl	For laboratory	Salary, December 16 to 24	121.08
	26	Walter F. Hewett	For experiment station	Feed	3.80
	27	Hentlings & Belz	For laboratory	Repairing boxes	4.83
	30	Theobald Smith	do	Sundry expenses	20.46
	30	do	Investigations in Philadelphia, Delaware, and Maryland	Expenses December 3 and 12 to 14	136.52
	30	W. B. Moses & Son	For laboratory	Office furniture	151.60
	31	Cooper Cutrice	Laboratory	Salary for December	101.10
	31	V. A. Moore	do	do	101.10
	31	W. S. D. Haines	do	do	60.60
	31	M. N. Barnard	do	do	

Expended from the appropriation for 1889-'90—Continued.

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889.						
Dec. 31	Wm. Alexander	Laboratory	Salary for December	\$60.00		
31	J. Somerville	do	do	55.00		
31	W. H. Bradford	Experiment station.	do	60.00		
			Total for month	729.20	\$20.46	\$925.65
1890.						
Jan. 2	H. J. Ruppert	For experiment station.	Rent for December			41.00
4	The Journal of Comparative Medicine and Surgery	For laboratory	Subscription			1.50
4	Gustav Thellkuhl	Laboratory	Salary for December 26 to January, 4.	24.00		
8	E. & H. T. Anthony	For laboratory	Subscription to Bulletin			1.50
8	Geo. S. Davis	do	Subscription to Index Medicus			5.00
8	Chesapeake and Potomac Telephone Company.	For experiment station.	Exchange rental			33.94
10	Z. D. Gilman	do	Instrument case			5.00
10	L. H. Hopkins	do	Buckets, screws, etc.			10.00
10	do	For laboratory	Locks, etc.			4.40
10	Alfred Burnett	Experiment station.	Laborer, November and December 213 days.	32.62		
16	F. P. May & Co.	For experiment station.	Hinges			1.45
16	L. Mangum	do	Ice			15.62
16	Minnis & Martyn	do	Water tank			11.00
16	Lea Brothers & Co	American Journal and Medical News.	Subscription			3.75
16	Library Bureau	For laboratory	Catalogue cards			8.79
17	D. W. Deveridge & Co	do	Wire cages			100.00
17	D. Appleton & Co	New York Medical Journal.	Subscription			2.50
22	John A. Baker	For experimental station	Two bull-snaps			.50
23	E. L. Cudlip	For laboratory	Photographic sundries			22.28
27	C. W. Kolbe	For experiment station	Sharpening scissors			1.70
30	A. E. Foote	For laboratory	Books			26.45
31	F. Deffer	Laboratory	Carpenter, January, 5 days	10.00		
31	Wm. Halley	do	Carpenter, January, 4 days	12.00		
31	E. C. Schroeder	do	Salary for January	103.30		
31	Cooper Curdick	do	do	155.30		
31	E. A. v. Schweinitz	do	Salary for Jan. 15 to 31	75.56		
31	V. A. Moore	do	Salary for January	120.00		
31	W. S. D. Haines	do	do	103.30		
31	M. N. Barnard	do	do	72.30		
31	Wm. Alexander	do	do	62.00		

	Experiment station. Laboratory		do do	\$1, 188.52	889.48	299.04
31	W. H. Bradford		do	Total for month.		
31	J. Somerville		do			
Feb.	Alex. Schmid	For laboratory.	Microscopic slide cases			17.50
3	H. J. Ruppert	For experiment station	Rent for January			41.66
5	Alfred Burnett	do	Laborer, January, 13 days.			
6	Walter F. Hewett	do	Feed		19.50	94.70
8	Z. D. Gilman	For laboratory.	Chemicals, etc.			68.85
14	John Baker	For experiment station	Pump and barrow			13.50
14	L. H. Hopkins	do	Hardware			6.18
14	Holmes & Co.	do	Rubber gloves			2.25
14	Geo. N. Holland	do	Salt			1.75
21	Eimer & Amend.	do	Pump and blast			7.20
21	W. S. Barnard	do	Pamphlet files, etc.			34.40
28	Cooper Curtice	do	Salary for February		140.00	
28	E. A. v. Schweinitz	do	do		124.40	
28	V. A. Moore	do	do		108.80	
28	W. S. D. Haines	do	do		93.40	
28	M. N. Barnard	do	do		65.40	
28	Wm. Alexander	do	Salary for Feb. 1 to 14		23.00	
28	do	do	Salary for Feb. 15 to 28		32.67	
28	do	do	Salary for February		56.00	
28	W. H. Bradford	Experiment station	do		51.40	
28	J. Somerville	Laboratory	Salary for February, 19 days		31.67	
28	J. K. Stewart	do	Carpenter, February, 24 days		72.00	
28	Wm. Halley	do	Carpenter, February, 16 days		46.00	
28	Wm. J. Spencer	do	Laborer, February, 24 days		48.00	
28	F. Deffer	do	do			
			Total for month.	\$1, 207.23	919.24	287.99
Mar.	H. J. Ruppert	For experiment station	Rent for February			41.66
3	E. C. Schroeder	Laboratory	Salary for February		93.40	
3	Eimer & Amend.	do	Chemicals, etc.			195.64
6	Church & Stephenson	do	Lumber			241.21
6	Washington Gas-Light Company	do	Piping, etc.			28.75
8	Minnis & Maryn	For experiment station	Repairs			8.00
8	Joe Z. Baker	do	Wheelbarrow			6.50
8	M. W. Beveridge	do	Cups and spoons			2.02
8	Ernest Betz	do	Ventilator			40.05
8	Woodward & Lothrop	do	Silk and thread			.88
10	Geo. Rynal, jr	For laboratory	Putty, etc.			389.17
10	Chas. R. Talbert	For experiment station	Hay, etc.			110.42
10	Walter F. Hewett	do	Feed			25.62
10	Z. D. Gilman	For laboratory	Chemicals, etc.			10.75
11	Church & Stephenson	For experiment station	Lumber			22.00
12	B. Westermann & Co	For laboratory	Books			
14	Belt & Dyer	do	Doors, etc.			
15	John C. Jones	do	Painter, Mar. 10 to 15		18.00	
18	D. W. Kolbe & Son	do	Sharpening instruments			3.50
21	E. J. Fullman	do	Camera, etc.			51.17

Expended from the appropriation for 1889-'90—Continued.

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890.						
Jan. 22	Eimer & Amend	Laboratory	Chemicals, etc			\$436.82
26	Richards & Co.	do	Chemical apparatus			179.87
27	Geo. E. Huetelius	do	Plumbing and fittings			407.63
31	Stephenson's Express	do	Charges			2.46
27	J. Edw. Chapman	For experiment station	Coal			11.58
31	E. C. Schroeder	Laboratory	Salary for Mar. 1 to 17 and 22 to 31	\$89.98		
31	Cooper Curtice	do	Salary for March	165.00		
31	E. A. v. Schweinitz	do	do	137.80		
31	V. A. Moore	do	do	120.60		
31	W. S. D. Haines	do	do	103.30		
31	M. N. Barnard	do	do	72.30		
31	Wm. Alexander	do	do	72.30		
31	W. H. Bradford	Experiment station	do	62.00		
31	J. Somerville	Laboratory	do	56.80		
31	Jas. K. Stewart	do	do	51.70		
31	Wm. Halley	do	Carpenter, March, 26 days	78.00		
31	Wm. J. Spencer	do	do	78.00		
31	John C. Jones	do	Painter, March, 19 days	39.00		
31	F. Delfer	do	Laborer, March, 9 days	18.00		
			Total for month.....	\$3,469.12		
Apr. 3	Walter F. Howett	For experiment station	Feed	1,246.18		2,222.94
3	E. D. Pennell	do	Hay			98.94
3	Orpio Anderson	do	Spreaders, etc.			182.25
3	M. W. Beveridge	do	Brushes, etc.			3.75
3	Geo. Lynam, Jr.	For laboratory	Putty and paint			2.05
3	H. J. Ruppert	do	Rent for March			1.24
4	Chesapeake and Potomac Telephone Company	For experiment station	Exchange rental			41.66
4	F. L. Kilborne	do	Transportation of cow			35.94
5	F. P. May & Co	do	Nails, scoops, etc.			3.30
7	Church & Stephenson	do	Lumber			5.75
11	Elphozo Youngs	do	Prepared food			26.46
11	Edward S. Schmid	do	Pigeons			14.00
11	E. Jackson	do	Stamps, etc.			8.50
11	Francis Miller	Laboratory	Glasses, paint, etc.			6.50
11	L. H. Hopkins	do	Hardware			38.59
11	do	For experiment station	do			26.37
16	Eimer & Amend	For laboratory	Erlenmeyer burner			16.70
16	do	do	Filter, etc.			2.00
						11.30

18	B. Westermann & Co.	do	Books			184.15
18	W. B. Moses & Sons.	do	Furniture			69.43
21	Fulton & Walker Co.	For experiment station	Operating table			85.00
25	Carl Zeiss	For laboratory	Instruments			355.67
30	Woodward & Lothrop	do	Towels			8.10
30	Tice & Lynch	do	Freight, etc.			11.44
30	E. C. Schroeder	do	Salary for April	98.90		
30	Wm. J. Spencer	do	Carpenter, April, 24 days	72.00		
30	Wm. Halley	do	do	72.00		
30	Cooper Curdick	do	Salary for April	148.30		
30	E. A. v. Schweinitz	do	do	131.90		
30	W. A. Moore	do	do	115.40		
30	W. S. D. Haines	do	do	98.90		
30	M. N. Barnard	do	do	69.20		
30	Wm. Alexander	do	do	69.20		
30	W. H. Bradford	do	do	59.30		
30	J. Somerville	Experiment station	do	54.40		
30	W. C. Shimoneck	Laboratory	Salary for April, 24 days	43.52		
30	Jas. R. Stewart	do	Salary for April	49.50		
				Total for month	\$2,331.21	
					1,082.52	1,248.69
May	H. J. Rappert	Experiment station	Rent for April			41.66
3	Washington Gas-Light Company	For laboratory	Charges			.38
5	Alfred Burnett	Experiment station	Laborer, April, 17½ days	26.25		
6	Jno. A. Baker	For experiment station	Clippers			2.00
9	Geo. W. Knox	do	Freight, etc.			4.56
9	Geo. W. Talbert	do	Potatoes			4.00
12	Z. D. Gilman	do	Prescription scales, etc.			11.50
12	E. Jackson	do	Bridles, etc.			8.30
12	L. H. Hopkins	do	Buckets, etc.			8.60
13	L. Manum	do	Ice			13.10
15	Henry Holliday	Laboratory	Carpenter, May, 13 days	39.00		
15	E. L. Kilborne	For experiment station	Expenses, Jan., Mar			6.53
16	B. Westermann	For laboratory	Books			48.23
16	Z. D. Gilman	do	Chemical apparatus			41.18
16	do	do	Chemicals, etc.			85.07
16	do	For experiment station	Feed			111.18
17	Chas. R. Talbert	do	2 repaculums			2.50
17	D. W. Kolbe & Son	do	Feed			83.60
17	W. M. Galt & Co.	do	Feed			96.00
17	W. M. Whyte & Bro	For laboratory	3 skylights			
17	Burton Vernon	do	Slater, May 14 to 17	11.37		
17	James Thompson	do	Laborer, May 14 to 17	6.00		
17	James Fanny	do	Laborer, May 1 to 10	13.50		
19	Church & Stephenson	do	Lumber			28.66
20	Wm. H. Liney	do	Plastering			89.00
22	William Webster	do	Laborer, May 14 to 20	9.00		
22	Richard Kny & Co	do	Tubing			
22	Chas. A. Freedman	do	Carpenter, May (3 days)	9.00		
23	W. M. Whyte & Bro	do	Sky light			17.60
23	A. E. Foote	do	Pamphlets			1.53
24	John T. Davis	do	Kalsomining			45.00

Expended from the appropriation for 1889-'90—Continued.

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890.						
May 26	Wm. Halley	Laboratory	Carpenter, May (22 days)	\$66.00		
31	Cooper Curtice	do	Salary for May	153.40		
31	E. A. v. Schweinitz	do	do	136.20		
31	V. A. Moore	do	do	119.20		
31	W. S. D. Haines	do	do	102.20		
31	M. N. Barnard	do	do	71.60		
31	Wm. Alexander	do	do	61.40		
31	W. H. Bradford	Experiment station	do	56.30		
31	J. Somerville	Laboratory	do	56.20		
31	W. C. Shimoneck	do	do	51.00		
31	Jas. R. Stewart	do	do	9.00		
31	Chas. M. Stewart	do	Laborer, May (4½ days)	42.60		
31	John Meany	do	Laborer, May (21 days)	81.00		
31	Wm. J. Spencer	do	Carpenter, May (27 days)	24.00		
31	Henry Holiday	do	Carpenter, May (8 days)	33.00		
31	Chas. M. Stewart	do	Painter, May (11 days)	13.50		
31	John Meany	do	Laborer, May (9 days)			
			Total for month	\$2,009.27		\$747.65
June 3	E. C. Schroeder	do	Salary for May 1 to 15 and 23 to 31	79.12		41.66
5	H. J. Kuppert	For experiment station	Charges			.75
9	Washington Gas-Light Company	For laboratory	Laborer, May (20 days)	30.00		33.39
10	Alfred Burnett	Experiment station	Plumbing, etc			70.39
10	Geo. E. Hutchins	For laboratory	do			45.07
10	do	do	do			92.64
10	Ernest Betz	do	Tinning			7.90
10	Walter F. Hewett	For experiment station	Feed			2.25
10	Geo. N. Holland	do	Horse brushes, etc			40.00
10	Holmes & Co	do	Rubber gloves			180.00
11	Elizabeth Fanningan	do	Cow and heifer			38.43
12	David Pefferling	do	12 head cattle			1.50
12	L. H. Hopkins	do	Hand hoist, etc			84.09
12	L. H. Hopkins	do	Steel figures			6.02
12	B. F. Morrison	do	Lumber			28.00
12	Church & Stephenson	For laboratory	Carpenter, May (8½ days)	25.50		135.32
13	Theobald Smith	do	Expenses, January to May			11.75
14	Chas. M. Stewart	Laboratory	Painter, June 2 to 5	12.00		
16	Charles Dawson	For experiment station	Animal holder			
16	Church & Stephenson	do	Lumber			
16	S. J. Meeks	do	Repairing wagon			

16	Minnis & Martyr.	do	Galvanized buckets			7.85
17	Z. D. Gilman	do	Instruments			9.50
18	Johnson Bros	For laboratory	Coal			33.90
21	George Ryneal, jr.	do	Paint, etc			3.28
25	Belt & Dyer	do	2 doors			6.00
26	E. C. Schroeder	do	Salaries for June		98.90	
30	Cooper Curtice	do	do		148.30	
30	E. A. v. Schweinitz	do	do		131.90	
30	V. A. Moore	do	do		115.40	
30	W. S. D. Haines	do	do		98.90	
30	M. N. Barnard	do	do		69.20	
30	Wm. Alexander	do	do		69.20	
30	W. H. Bradford	Experiment station	do		59.30	
30	J. Somerville	Laboratory	do		54.40	
50	J. R. Stewart	do	do		49.50	
30	W. C. Shimoneck	do	do		54.40	
30	John Meaney	do	Laborer, June (25 days)		37.50	
30	Wm. J. Spencer	do	Carpenters, June (25 days)		75.00	
Total for month				1,208.52		879.69
1	W. B. Moses & Sons	For experiment station	Toilet cabinet			8.50
1	do	For laboratory	Office furniture			123.65
2	A. E. Foote	do	Books			26.50
2	do	do	Book			18.00
2	H. J. Ruppert	For experiment station	Rent for June			41.66
3	Wilmarth & Edmonston	For laboratory	Refrigerator, etc			49.60
8	Washington Gas-Light Company	do	Charges			.75
9	B. Westermann & Co	do	Books			125.21
9	Alfred Burnetts	Experiment station	Laborer June (20 days)		30.00	
9	Prodhead & Co.	For laboratory	Cotton batting			1.80
9	Jas. L. Barbour & Son	For experiment station	Brooms			2.60
10	W. B. Moses & Sons	do	Furniture			20.00
10	L. H. Hopkins	For laboratory	Hardware			18.30
10	Theobald Smith	do	Expenses, May and June			3.32
11	Elmer & Amend	do	Chemicals, etc			233.46
11	Francis Miller	do	Paint, etc			18.59
11	Elmer & Amend	do	Chemical apparatus			8.60
14	A. Hoen & Co.	For "Parasites of Sheep"	Lithographing and printing 10,000 copies each of 36 plates			2,732.68
16	F. L. Kilborne	Investigating Texas fever, North Carolina	Expenses June 26 to 30		35.60	
19	Chas. R. Talbert	For experiment station	Feed			252.30
19	David Pfeiffering	do	5 heifers			307.31
19	C. Becker	do	Harness			80.00
19	Geo. E. Hutchins	For laboratory	Plumbing, etc			35.00
19	Elphonzo Youngs	For experiment station	Prepared food			26.25
19	Chesapeake and Potomac Telephone Company	do	Exchange rental			24.50
21	Z. D. Gilman	For laboratory	Chemical apparatus			35.94
22	Walter F. Hewett	For experiment station	Feed			388.11
22	Church & Stephenson	do	Lumber			218.19
						64.38

Expended from the appropriation for 1889-'90—Continued.

SCIENTIFIC INVESTIGATIONS—GENERAL—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890. July 22	L. H. Hopkins.....	For experimental station.....	Hardware.....			\$56.75
22	Independent Ice Company.....	do.....	Ice.....			14.72
23	Ellen T. Keane.....	do.....	Rent, Feb. 24 to June 30.....			104.11
26	A. E. Foote.....	do.....	Books.....			12.50
			Total for month.....\$5, 313. 78	\$30. 00	\$35. 60	5, 248. 18
Aug. 7	A. E. Foote.....	do.....	Book.....			30. 00
7	do.....	do.....	do.....			7. 25
8	T. L. Armstrong.....	do.....	do.....			1. 62
16	Elmer & Amend.....	Texas fever.....	Salary and expenses, June 26 to 30.....			95. 60
16	John F. Stephenson.....	For laboratory.....	Alcohol.....	24. 67	20. 55	17. 23
16	Chas. R. Talbert.....	do.....	Freight charges.....			4. 08
16	David Pfefferling.....	For experiment station.....	Hay, etc.....			278. 03
16	Walter F. Hewett.....	do.....	8 heifers.....			152. 00
16	W. H. Moffatt.....	do.....	Feed.....			82. 35
16	do.....	do.....	Repairing pump.....			3. 50
19	T. L. Armstrong.....	do.....	Expenses, June 28 to 30.....		9. 25	
			Total for month.....\$726. 03	24. 67	29. 80	671. 56
Sept. 1	Cooper Curtice.....	do.....	Expenses, June 3.....			
11	W. B. Moses & Sons.....	For laboratory.....	Slates, etc.....		2. 52	18. 65
16	N. V. Randolph & Co.....	do.....	Pamphlet covers.....			6. 24
16	Walter F. Hewett.....	For experiment station.....	Feed.....			87. 90
11	Chas. R. Talbert.....	do.....	do.....			53. 48
			Total for month.....\$168. 79		2. 52	166. 27
			Grand total.....\$24, 826. 20	10, 274. 38	132. 16	14, 419. 66

INVESTIGATION OF SWINE DISEASES.

1889, July	31	Theobald Smith	Laboratory	Salary for July	\$108.50		
		F. L. Kilborne	Experiment station	do.	151.60		
		C. S. Meyers	do.	do.	50.50		
				Total for month	370.60		
Aug	31	Theobald Smith	Laboratory	Salary for August	168.50		
		F. L. Kilborne	Experiment station	do.	151.60		
		C. S. Meyers	do.	do.	53.60		
				Total for month	375.70		
Sept.	6	F. L. Kilborne	Investigation, Virginia	Expenses, September 2 to 5		\$14.34	\$5.50
		do.	For experiment station	2 pigs			7.00
		Theobald Smith	Laboratory	Salary, September	163.00		
		F. L. Kilborne	Experiment station	do.	146.80		
Oct.	30	C. S. Meyers	do.	do.	53.80		
				Total for month	363.60	14.34	12.50
		Church & Stephenson	For experiment station	Lumber			113.21
		F. L. Kilborne	do.	Pigs, etc.			9.00
Nov.	19	G. A. Shallenberger	do.	29 pigs			101.50
		W. M. Galt & Co.	do.	Feed			85.12
		Jno. A. Baker	do.	Water truck and barrel			10.00
		Thos. Hanrahan	do.	Clover			13.00
Dec.	7	Theobald Smith	Laboratory	Salary, October	168.50		
		F. L. Kilborne	Experiment station	Salary, October	151.60		
		C. S. Meyers	do.	do.	55.60		
				Total for month	375.70		331.83
Nov.	21	Alfred Burnett	Experimental station	Laborer, October and November, (31g days)	47.50		
		Walter F. Hewett	For experimental station	Feed		9.25	125.51
		Cooper Curtice	Baltimore and Culpeper, Va	Expenses, October 2, November 3 and 21	163.00		
		Theobald Smith	Laboratory	Salary, November	146.80		
Dec.	30	F. L. Kilborne	Experimental station	do.	53.80		
		C. S. Meyers	Experimental station	do.			
				Total for month	411.10	9.25	125.51
		F. L. Kilborne	For experimental station	11 pigs and 16 rabbits			42.60
Dec.	16	Norman Bestor	do.	21 pigs and 16 rabbits			94.50
		John A. Erdman	do.	12 pigs and 16 rabbits			42.00
		G. A. Shallenberger	do.	11 pigs and 16 rabbits			38.50
		Theobald Smith	Laboratory	Salary, December	168.50		

Expended from the appropriation for 1889-'90—Continued.

INVESTIGATION OF SWINE DISEASES—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889. Déc. 31	F. L. Kilborne C. S. Meyers	Experimental station. do.	Salary, December. do	\$151.60 55.60		
1890. Jan. 10			Total for month.	375.70		\$217.50
Jan. 31	F. L. Kilborne	Philadelphia.	Expenses, December 3 and 23.			
31	Theobald Smith	Laboratory	Salary, January	172.20	\$15.80	
31	F. L. Kilborne	Experimental station	do	155.00		
31	C. S. Meyers	Experimental station	do	56.80		
			Total for month.	384.00	15.80	
Feb. 5	F. L. Kilborne	Philadelphia.	Expenses, January 25.		9.05	
5	do	For experimental station	7 pigs.			18.25
28	Theobald Smith	Laboratory	Salary, February	155.60		
28	F. L. Kilborne	Experimental station.	do	140.00		
28	C. S. Meyers	do	do	51.40		
			Total for month.	347.00	9.05	18.25
Mar. 8	Alfred Burnett.	Experimental station.	Laborer, February, (11½ days)	17.25		
10	F. L. Kilborne.	For experimental station.	13 pigs			39.00
18	Reform School, D. C.	do	7 pigs			24.50
31	Theobald Smith	Laboratory	Salary, March	172.20		
31	F. L. Kilborne	Experimental station.	do	155.00		
31	C. S. Meyers	Experimental station	do	56.80		
			Total for month	401.25		63.50
Apr. 2	Wm. H. Lacy	For experimental station	Pigs, etc.			37.00
4	Alfred Burnett.	Experimental station	Laborer, March, (13 days.	19.50		
30	Theobald Smith	Laboratory	Salary, April	164.80		
30	F. L. Kilborne.	Experimental station	do	148.30		
30	C. S. Meyers	do	do	54.40		
			Total for month	387.00		37.00
May 3	Reform School, D. C.	For experiment station	29 pigs			101.50
31	Theobald Smith	Laboratory	Salary, May	170.40		

COLLECTING INFORMATION.

31	F. L. Kilborne	Experiment station	Salary, May	153.40	
31	C. S. Meyers	do	do	56.20	
			Total for month	380.00	101.50
June 20	F. L. Kilborne	For experiment station	Small animals		6.50
30	Theophilus Smith	Laboratory	Salary, June	164.80	
30	F. L. Kilborne	Experiment station	do	148.30	
30	C. S. Meyers	do	do	54.40	
			Total for month	367.50	6.50
Aug. 20	G. A. Shallenberger	For experiment station	12 pigs		42.00
			Grand total	4,539.15	48.44
					956.09
1889.					
Aug. 6	T. L. Armstrong		Salary and expenses, July 7 to 23	\$73.93	\$88.05
10	H. Romaine		Salary and expenses, July	14.00	14.00
12	Samuel H. Pierce		Salary and expenses, July 19 to 31	49.46	96.85
12	Sam'l W. Campbell		Salary and expenses, July	134.80	63.93
12	Watson Pickrell		do	270.00	43.00
			Total for month	662.99	305.83
Sept. 4	T. L. Armstrong		Expenses, July 18 to 20		10.75
6	J. T. McNeely		Salary for July	134.80	
13	do		Salary for August	134.80	
13	Watson Pickrell		Salary and expenses, August	270.00	86.20
18	H. Romaine		Salary for August	134.80	
19	Sam'l H. Pierce		Salary and expenses, August	117.90	95.25
21	Sam'l W. Campbell		do	134.80	43.12
			Total for month	927.10	235.32
Oct. 14	Watson Pickrell		Salary and expenses, September	250.00	123.90
14	Sam'l W. Campbell		do	130.40	94.31
14	Sam'l H. Pierce		do	114.20	2.75
14	H. Romaine		Salary for August	130.40	
24	Denver and Rio Grande Railroad Company		Trans., W. Pickrell		29.00
			Salary and expenses, September	130.40	55.25
26	J. T. McNeely		Total for month	755.40	305.21
					.75

Expended from the appropriation for 1889-'90—Continued.
COLLECTING INFORMATION—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890.						
Nov. 9	J. T. McNeely		Salary and expenses, October	\$134.80	\$28.40	
9	Sam'l H. Pierce		do	117.90	2.95	
9	H. A. Heath		Salary and expenses, October 15 to 31	73.91	1.75	
9	H. Romaine		Salary for October	134.80		
12	Watson Pickrell		Salary and expenses, October	270.00	85.15	
14	Sam'l W. Campbell		do	134.80	82.79	.75
14	J. M. Wardlaw		Salary for October 15 to 31	73.91		
			Total for month	940.12	201.04	.75
Dec. 10	Watson Pickrell		Salary and expenses, November	260.00	84.35	
10	J. M. Wardlaw		Salary for November	130.40		
13	H. Romaine		do	130.40		
13	Sam'l W. Campbell		Salary and expenses, November	130.40	39.75	
13	J. T. McNeely		do	130.40		
13	H. A. Heath		do	130.40	26.50	
13	Sam'l H. Pierce		do	130.40	12.30	6.00
13	A. Liautard		Article on horse	114.20	27.30	466.00
			Total for month	1,026.20	190.20	472.00
1890.						
Jan. 10	Sam'l H. Pierce		Salary and expenses, December	117.90	42.70	
11	Watson Pickrell		do	260.00	107.00	
14	H. Romaine		Salary for December	134.80		
14	Sam'l W. Campbell		Salary and expenses, December	134.80	57.07	.75
14	J. T. McNeely		do	134.80	9.65	
14	J. M. Wardlaw		do	134.80	3.00	
22	H. A. Heath		do	134.80	15.35	1.50
22	Do.		Salary and expenses, January 1 to 15	66.67	1.25	
			Total for month	1,118.57	236.02	2.25
Feb. 5	Watson Pickrell		Salary and expenses, January	270.00	150.29	
8	M. A. Trumbower		Two articles on horse			280.00
8	H. A. Heath		Salary and expenses, January 16 to 31	71.11		3.40
12	Sam'l H. Pierce		do	120.60	62.25	
12	Sam'l W. Campbell		do	137.80	54.33	
12	J. T. McNeely		Salary for January	137.80		
12	J. M. Wardlaw		Salary and expenses, January 1 to 15	66.67	4.70	
12	A. A. Holcombe		Article on horse			350.00
13	H. Romaine		Salary for January	137.80		

19	W. A. Armstrong	.....	do	.....	103.30	.....
19	Do	.....	Salary for December	.....	101.10	.....
19	Do	.....	Salary for November 16 to 30	.....	52.17	.....
			Total for month	\$2,103.32	1,198.35	271.57
						633.40
Mar.	4	Watson Pickrell	.....	Salary and expenses, February	240.00	.....
	5	Sam'l H. Pierce	.....	Salary for February	108.80	.....
	12	W. A. Armstrong	.....	do	93.40	.....
	14	Sam'l W. Campbell	.....	Salary and expenses, February	124.40	46.12
	14	H. Romaine	.....	Salary for February	124.40	.85
	14	J. T. McNeely	.....	Salary for February	124.40	.....
	21	J. M. Wardlaw	.....	Salary for February 15 to 28	62.22	.....
	22	H. A. Heath	.....	Salary and expenses, February	124.40	64.90
			Total for month	\$1,237.49	1,002.02	234.62
						.85
Apr.	8	H. Romaine	.....	Salary for March	137.80	.....
	11	W. A. Armstrong	.....	do	103.30	.....
	12	J. T. McNeely	.....	do	137.80	.....
	14	Sam'l W. Campbell	.....	Salary and expenses for March	137.80	45.46
	14	H. A. Heath	.....	do	137.80	.35
	25	Watson Pickrell	.....	do	32.00	.....
	30	E. A. Carman	.....	Salary for April 18 to 30	260.00	171.35
			Total for month	\$1,220.80	971.64	248.81
						.35
May	5	W. A. Armstrong	.....	Salary for April	98.90	.....
	8	J. T. McNeely	.....	do	131.90	.....
	12	H. Romaine	.....	do	131.90	.....
	13	Watson Pickrell	.....	Salary and expenses for April	260.00	66.55
	13	Sam'l W. Campbell	.....	do	131.90	57.04
	14	H. A. Heath	.....	do	131.90	.35
	16	do	.....	Salary for May 1 to 15	65.93	64.25
	31	D. E. Salmon	.....	Expenses, March 20 to 25	32.10	.....
			Total for month	\$1,172.72	932.43	219.94
						.35
June	2	E. A. Carman	.....	Salary for May	136.20	.....
	5	W. A. Armstrong	.....	do	102.20	.....
	10	J. T. McNeely	.....	do	136.20	.....
	11	S. W. Campbell	.....	Salary and expenses for May	136.20	40.70
	11	Watson Pickrell	.....	do	270.00	38.15
	12	H. Romaine	.....	Salary for May	136.20	.....
	14	H. A. Heath	.....	Salary (15 to 31) and expenses, May	70.33	116.19
	21	W. H. Harbaugh	.....	Article on horse	9.89	5.00
	14	A. G. Asdikian	.....	Salary for May 29 to 31	131.90	250.00
	30	E. A. Carman	.....	Salary for June	98.90	.....
	30	A. G. Asdikian	.....	do	.....	.....
			Total for month	\$1,678.06	1,228.02	195.04
						255.00

Expended from the appropriation for 1889-'90—Continued.

COLLECTING INFORMATION—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890.						
July 3	W. A. Armstrong.....		Salary for June	\$98.90		\$586.50
5	James Law.....		Four articles on horse			376.00
5	Rush S. Huidekoper.....		Article on horse			
9	Watson Pickrell.....		Salary and expenses, June	250.00	\$597.02	
11	J. T. McNeely.....		Salary for June	131.90		
11	H. Romane.....		do.....	131.90		
12	S. W. Campbell.....		Salary and expenses for June.....	131.90	37.87	
26	Chicago and Northwestern Railway Company.....		Transportation, W. Pickrell.....		10.81	
			Total for month.....	744.60	145.70	962.50
Aug. 8	H. A. Heath.....		Salary and expenses, June.....	131.90	107.60	
25	Kansas City, Fort Scott and Memphis Railroad Company.....		Transportation, H. A. Heath		24.25	
			Total for month	131.90	131.85	
	<i>Transportation orders.</i>					
	Watson Pickrell.....				9.90	
	do.....	Butte to Suat Falls, Mont.....			12.89	
	do.....	Portland to Huntington, Oregon.....			35.75	
	do.....	Helena, Mont., to Portland			47.80	
	do.....	Huntington, Oregon, to Denver			19.75	
	do.....	Ogden to Silver Bow, Mont.....			.58	
	J. T. McNeely.....	Denver to D. M. E. and C. C. Junction.....			2.32	
	do.....	Denver to Fort Collins .....			.58	
	do.....	Fort Collins to Argo Junction.....			2.32	
	do.....	Fort Collins to Denver			50.60	
	Watson Pickrell.....	St. Paul to Miles City				
		Total	\$182.49		182.49	
		Grand total	\$17 091.18	11,659.34	3,103.64	2,328.20

INVESTIGATION OF REPORTED DISEASES.

1889. Aug. 6	James A. Walrath	Missouri and Kansas	Salary and expenses, July	168.50	10.90	.....
			Total for month .....			.....
Sept. 11	James A. Walrath	Missouri	Salary and expenses, August	168.50	5.80	.....
23	W. H. Wray	Virginia	Salary and expenses, August 22 to 24 and 30	32.00	24.80	.....
	do	do	Salary for September 10, and 11	16.00	.....	.....
			Total for month	216.50	30.60	.....
Oct. 9	T. L. Armstrong	Virginia	Salary and expenses, September 26 to 28	13.01	26.05	.....
9	W. H. Wray	do	Expenses September 10 to 11 .....	.....	9.60	.....
14	James A. Walrath	Missouri	Salary and expenses, September	163.00	2.65	.....
			Total for month	176.01	38.30	.....
Nov. 6	James A. Walrath	Missouri	Salary and expenses, October	168.50	2.95	.....
9	W. H. Wray	Virginia	Salary and expenses, October 21 to 25	16.00	7.60	.....
			Total for month	184.50	10.55	.....
Dec. 5	W. H. Wray	Delaware	Salary and expenses, November 19 and 20	16.00	14.62	.....
6	A. M. Farrington	Virginia	Expenses, November 6 to 9, and 25 to 27 .....	.....	22.87	.....
9	James A. Walrath	Missouri	Salary and expenses, November	163.00	2.85	.....
13	Thomas L. Staaden	Virginia	1 cow .....	.....	20.00	.....
			Total for month	179.00	40.34	.....
1890. Jan. 7	W. H. Wray	Virginia	Salary and expenses, December 20	8.00	4.45	.....
8	Jas. A. Walrath	Missouri	Salary and expenses, December	168.50	2.75	.....
10	F. L. Kilborne	Maryland	Expenses, December 12 to 14 .....	.....	18.51	.....
			Total for month	176.50	25.71	.....
Feb. 4	A. M. Farrington	Virginia	Expenses, December 9 to 11 .....	.....	7.90	.....
11	W. H. Wray	Delaware	Salary and expenses, January 31	8.00	1.60	.....
12	Jas. A. Walrath	Illinois	Salary and expenses, January	172.20	90.83	.....
			Total for month	180.20	100.33	.....
Mar. 8	James A. Walrath	Illinois	Salary and expenses, February	155.60	2.12	.....
31	E. C. Schroeder	Virginia	Salary and expenses, March 18 to 21	13.32	8.35	.....
			Total for month	168.92	10.47	.....
Apr. 3	T. L. Armstrong	Virginia and District of Columbia	Salary and expenses, March (4 days)	20.00	2.85	.....
			Total for month .....	.....	.....	.....
			Total for month .....	.....	.....	.....

Expended from the appropriation for 1889-'90—Continued.

INVESTIGATION OF REPORTED DISEASES—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890. May 3	W. H. Wray.	Virginia and West Virginia	Salary and expenses, April 4, 5, and 26 to 28.	\$40.00	\$29.90	.....
5	E. C. Schroeder.	Virginia	Expenses, April 30	.....	8.35	.....
June 3	E. C. Schroeder	Pennsylvania.	Total for month	40.00	38.25	.....
18	W. H. Wray.	Mississippi	Salary and expenses, May 16 to 22	23.08	28.97	.....
			Salary for June (6 days)	48.00	.....	.....
July 8	W. H. Wray	Mississippi	Total for month	71.08	28.97	.....
			Expenses, June 5 to 12	.....	103.20	.....
			Grand total.	1,581.21	446.47	\$20.00

STOCK YARDS.

Apr. 8	Sam'l H. Pierce	Chicago	Salary for March	\$120.00	.....	.....
12	J. M. Wardlaw	.....	do	137.80	.....	.....
25	Wilson F. Braden	Pittsburgh	Salary and expenses, March 15 to 31	47.22	\$20.83	.....
			Total for month	305.02	20.83	.....
May 5	Sam'l H. Pierce	.....	Salary for April	115.40	.....	.....
8	A. D. Melvin	Chicago	Salary and expenses, April 15 to 30	87.91	55.31	.....
12	Anderson M. Hunter	Kansas City	do	61.54	22.25	.....
13	Wilson F. Braden	.....	Salary and expenses, April	82.40	20.25	.....
13	J. M. Wardlaw	.....	do	131.90	8.50	.....
17	Albert Dean.	Kansas City	Salary for April	148.30	.....	.....
17	Andrew J. McCoy	do	Salary for April 3 to 30	123.08	.....	.....
17	Howard Rhonda	do	Salary for April 15 to 30	52.75	.....	.....
17	Charles E. Collins	do	Salary for April 21 to 30	32.97	.....	.....
19	T. L. Armstrong	do	Salary for April	148.30	.....	.....
			Total for month	984.55	106.51	.....
June 4	T. L. Armstrong	.....	Expenses, April	.....	141.75	.....
5	Albert Dean	.....	Salary for May	153.40	.....	.....
5	Howard Rhonda	.....	do	102.20	.....	.....
6	Chas. E. Collins	.....	do	102.20	.....	.....

10	W. F. Braden.....	do	85.20	do	85.20
11	S. H. Pierce.....	Salary and expenses, May	119.20	Salary and expenses, May	44.39
12	James Irwin.....	Salary and expenses, April	98.90	Salary and expenses, April	46.05
13	A. D. Melvin.....	Salary and expenses, May	170.40	Salary and expenses, May	46.30
14	A. J. McCoy.....	Salary for May	136.20	Salary for May	136.20
15	T. L. Armstrong.....	Salary and expenses for May	153.40	Salary and expenses for May	81.90
16	J. M. Wardlaw.....	do	136.20	do	8.00
23	A. M. Hunter.....	do	119.20	do	30.70
		Total for month	1,376.50		399.69
July 1	Jas. Irwin.....	Salary and expenses, May	102.20	Salary and expenses, May	27.60
8	S. H. Pierce.....	Salary for June	113.40	Salary for June	5.15
11	A. D. Melvin.....	Salary and expenses, June	104.80	Salary and expenses, June	20.25
11	J. M. Wardlaw.....	do	131.90	do	148.30
11	Albert Dean.....	Salary for June	98.90	Salary for June	98.90
11	Howard Rhoads.....	do	98.90	do	98.90
11	Chas. E. Collins.....	do	82.40	do	82.40
11	W. F. Braden.....	do	131.90	do	131.90
19	A. J. McCoy.....	Salary and expenses, June	115.40	Salary and expenses, June	16.25
19	A. M. Hunter.....	do	98.90	do	11.20
19	Jas. Irwin.....	do		do	
		Total for month	1,289.00		80.45
Aug. 8	T. L. Armstrong.....	Salary and expenses, June 1 to 25	123.63	Salary and expenses, June 1 to 25	18.00
		Total for month			
		Grand total.....	4,079.30		625.28

WASHINGTON AND MISCELLANEOUS.

1880.					
July 19	V. G. Fischer.....	Subscriptions, 1889-'90	\$252.70	Subscriptions, 1889-'90	\$36.10
31	D. E. Salmon.....	Salary for July	126.40	Salary for July	126.40
31	E. B. Jones.....	do	189.50	do	189.50
31	A. M. Farrington.....	do	151.60	do	151.60
31	W. J. Cowing.....	do	151.60	do	151.60
31	Robt. S. Forbes.....	do	134.80	do	134.80
31	Miles Fuller.....	do	101.10	do	101.10
31	I. W. Stone.....	do	84.20	do	84.20
31	Mary Sullivan.....	do	70.80	do	70.80
31	M. T. Dent.....	do	60.60	do	60.60
31	M. G. Marshall.....	do		do	
31	Edw. Story.....	do		do	
31	Wilson Carey.....	do		do	
		Total for month	1,545.70	Total for month	\$1,581.80
					36.10

Expended from the appropriation for 1889-'90, by States—Continued.

WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889, Aug. 23	Easton & Rupp		Stationery	\$252.70		\$32.00
31	D. E. Salmon		Salary for August	126.40		
31	E. B. Jones		do	189.50		
31	A. M. Farrington		do	151.60		
31	W. J. Cowling		do	151.60		
31	Robt. S. Forbes		do	151.60		
31	Miles Fuller		do	151.60		
31	I. W. Stone		do	134.80		
31	Mary Sullivan		do	101.10		
31	M. T. Dent		do	84.20		
31	M. G. Marshall		do	70.80		
31	Edw. Story		do	70.80		
31	Wilson Carey		do	60.00		
			Total for month	1,545.70		32.00
Sept. 4	Adams Express Company		Charges			3.20
4	John C. Parker		Stationery			10.00
16	Library Bureau		Catalogue cases			108.44
20	The Lawyers' Cooperative Publishing Company		U. S. Supreme Court Report No. 33.			5.00
20	Capitol, North O Street, and South		Street-car tickets			12.50
26	Washington Railway Company		Typewriter repairs			3.25
30	D. E. Salmon		Salary for September	244.60		
30	E. B. Jones		do	123.20		
30	A. M. Farrington		do	189.50		
30	W. J. Cowling		do	146.80		
30	Robert S. Forbes		do	146.80		
30	Miles Fuller		do	140.80		
30	I. W. Stone		do	130.40		
30	Mary Sullivan		do	97.80		
30	Mary T. Dent		do	81.60		
30	Wm. B. Gravath		Salary for September (25 days)	67.93		
30	M. G. Marshall		Salary for September	68.40		
30	Edw. Story		do	68.40		
30	Wilson Carey		do	58.80		
			Total for month	1,564.03		142.39
						\$1,706.42

Expended from the appropriation of 1889-'90, by States—Continued.

WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1889.						
Dec. 31	A. M. Farrington		Salary for December	\$189.50		
31	W. J. Cowing		do	168.50		
31	Robt. S. Forbes		do	151.60		
31	Miles Fuller		do	151.60		
31	I. W. Stone		do	134.80		
31	Mary Sullivan		do	101.10		
31	Mary T. Dent		do	84.20		
31	Wm. B. Cravath		do	84.20		
31	M. G. Marshall		do	70.80		
31	Edw. Story		do	70.80		
31	Wilson Carey		do	60.60		
			Total for month	\$2,130.28	\$210.98	\$212.50
1890.						
Jan. 8	Chesapeake and Potomac Telegraph Company		Exchange rental			33.00
10	Columbia Phonograph Company		Rent, etc			25.50
11	Wyckoff, Seaus & Benedict		Typewriter and cabinet			110.00
14	Easton & Rupp		Envelopes			8.70
16	Capitol, North O Street, and South Washington Railway Company		Car tickets			12.50
16	John C. Parker		Stationery			23.34
22	The Lawyers' Cooperative Publishing Company		General Digest, Vol. IV			6.00
28	Wm. H. Teepe		Stationery			9.25
30	W. B. Moses & Son		Furniture	258.30		270.50
31	D. E. Salton		Salary for January	129.20		
31	E. B. Jones		do	172.20		
31	W. J. Cowing		do	193.70		
31	A. M. Farrington		do	155.00		
31	Robt. S. Forbes		do	137.80		
31	Miles Fuller		do	103.30		
31	I. W. Stone		do	103.30		
31	W. P. Surgeon		do	86.10		
31	Mary Sullivan		do	86.10		
31	M. T. Dent		do	86.10		
31	M. G. Marshall		do	86.10		
31	Wm. B. Cravath		do	86.10		

Expended from the appropriation for 1889-'90, by States—Continued.

WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890. Apr. 4	Chesapeake and Potomac Telephone Company.....		Exchange rental.....			\$36.00
12	Mary E. Davis.....		Typewriting.....			60.75
18	Columbia Phonograph Company.....		Rent, etc.....			26.00
18	John C. Parker.....		Stationery.....			22.86
19	Herman Baumgarten.....		Rubber stamps.....			2.00
21	W. H. Lowdermilk & Co.....		Book.....			5.75
25	American Veterinary Review.....		Subscription.....			1.50
25	Capitol, North O Street and South Washington Railway Company.....					12.50
30	D. E. Salmon.....		Street-car tickets.....	\$247.25		
30	E. B. Jones.....		Salary, April.....	123.60		
30	W. J. Cowing.....		do.....	164.80		
30	A. M. Farrington.....		do.....	185.40		
30	Robt. S. Forbes.....		do.....	148.30		
30	Miles Fuller.....		do.....	148.80		
30	I. W. Stone.....		do.....	131.90		
30	W. P. Spurgeon.....		do.....	98.90		
30	Mary Sullivan.....		do.....	98.90		
30	Mary T. Dent.....		do.....	82.40		
30	Mary G. Marshall.....		do.....	82.40		
30	Wm. B. Cravath.....		do.....	82.40		
30	Edw. Story.....		do.....	69.20		
30	Wilson Carey.....		do.....	59.30		
			Total for month.....	\$1,723.05		166.86
May 1	W. B. Jenkins.....		Books.....			7.30
5	Jennie Davis.....		Type-writing, etc.....			9.00
10	Wyckoff, Seamans & Benedict.....		Copyholder.....			2.00
12	Edmund J. Moffat.....		Cable-grams.....			9.98
14	B. Westermann & Co.....		Subscriptions.....			15.25
17	Adams Express Company.....		Charges.....			2.05
23	John C. Parker.....		Books.....			22.50
31	D. E. Salmon.....		Salary, May.....	255.50		
31	E. B. Jones.....		do.....	127.80		
31	W. J. Cowing.....		do.....	170.40		
31	A. M. Farrington.....		do.....	191.70		
31	Robt. S. Forbes.....		do.....	153.40		
31	Miles Fuller.....		do.....	153.40		
31	I. W. Stone.....		do.....	136.20		

31	Talma Drew	do	119.20			
31	W. P. Spurgeon	do	102.20			
31	Mary Sullivan	do	102.20			
31	Mary I. Dent	do	85.20			
31	M. G. Marshall	do	85.20			
31	Wm. B. Cravath	do	85.20			
31	Edw. Story	do	71.60			
31	Wilson Carey	do	61.40			
	Total for month		\$1,900.60	\$1,967.78		67.18
June 18	Easton & Knapp	Stationery				139.70
20	Capitol, North O Street and South Washington Railway Company	Car tickets				12.50
27	D. R. Alton	Expenses, June			\$47.10	
30	D. E. Salmon	Salary, June	247.25			
30	E. B. Jones	do	123.60			
30	W. J. Cowing	do	164.80			
30	A. M. Farrington	do	185.40			
30	Robt. S. Forbes	do	148.30			
30	Miles Fuller	do	148.30			
30	I. W. Stone	do	131.90			
30	Talma Drew	do	115.40			
30	W. P. Spurgeon	do	98.90			
30	Mary Sullivan	do	98.90			
30	M. I. Dent	do	82.40			
30	M. G. Marshall	do	82.40			
30	Wm. B. Cravath	do	82.40			
30	Edw. Story	do	69.20			
30	Wilson Cary	do	59.30			
	Total for month		1,838.45	\$2,037.75	47.10	152.20
July 1	W. B. Moses & Son	Furniture				28.00
1	Chas. I. Condit	Three volumes Century Dictionary				37.50
7	John C. Parker	Books				7.00
10	Wm. H. Teepe	Stationery				2.10
11	Columbia Phonograph Company	Rent, etc.				29.39
16	John C. Parker	Stationery				22.80
19	Chesapeake and Potomac Telephone Company	Exchange rental				33.00
21	American Hereford Cattle Breeders' Association	Herd records				50.00
21	American Jersey Cattle Club	do				50.00
21	Wallace Trotting-Register Company	Registers				36.00
21	The Holstein-Friesian Association of America	Herd books				20.54
21	The American Guernsey Cattle Club	Registers				7.00
21	The American Shire Horse Association	Stud book				6.00
21	The Brown Swiss Cattle Breeders' Association	Herd record				.82

Expended from the appropriation for 1889-'90—Continued.

WASHINGTON AND MISCELLANEOUS—Continued.

Date.	Name.	Remarks.	For what paid.	Salaries.	Traveling expenses.	Miscellaneous.
1890. July 21	Easton & Rupp		Stationery			\$99.32
22	American Short-Horn Breeders' Association		Herd books			87.00
24	S. D. Bruce		American stud books			49.00
24	American Percheron Horse Breeders' Association		Stud book			8.00
26	James Buckingham		American Devon Records			13.00
			Total for month			586.47
Aug. 7	Maurice Joyce		Stereotype plate			7.48
8	The Holstein-Friesian Association of America		Herd books			27.00
8	Ayrshire Breeders' Association		Records			15.75
8	American Aberdeen-Angus Breeders' Association		Herd books			6.00
8	S. Hoxie		Dutch Friesian herd book			1.00
23	American Clydesdale Association		Stud books			20.00
			Total for month			77.23
	<i>Transportation orders.</i>					
	Talma Drew	Washington to Fort Worth.			\$42.30	
	do	Fort Worth to Washington			36.45	
					79.75	
			Grand total	\$20,268.07	529.93	2,130.84